



\* IMAGE FOR REF. ONLY \*

# ITD SUBLETT EQUIPMENT BUILDING

## SUBLETT, IDAHO



### ABBREVIATIONS

AE, GYP. BRD.	ACOUSTICALLY ENCHANGED GYPSUM BOARD	F.L.	FLOW LINE
A.F.F.	ABOVE FINISHED FLOOR	G.B.	GRAB BAR
A.T.	ACOUSTICAL TILE	GND.	GROUND
A.T.B.	ALUMINIUM THERMAL BARRIER	GYP.	GYPSUM
ADJ.	ADJUSTABLE	H.B.	HOSE BIB
ALUM.	ALUMINIUM	H.M.	HOLLOW METAL
B.P.	BLOCK PAINTED	JT.	JOINT
BLDG.	BUILDING	LAM.	LAMINATE
BLK.	BLOCK	MTL.	METAL
BLKT.	BLANKET	O.C.	ON CENTER
BRD.	BOARD	PART. BRD.	PARTICLE BOARD
BTM.	BOTTOM	PEMB.	PRE-ENGINEERED METAL BUILDING
C.	CARPET	P. L.	PROPERTY LINE
C.I.P.	CAST-IN-PLACE	P. LAM.	PLASTIC LAMINATE
C.T.	CERAMIC TILE	P.T.D.	PAPER TOWEL DISPENSER
C.W.	COLD WATER	PRE. FIN.	PRE-FINISHED
CLG.	CEILING	R.D.	ROOF DRAIN
COL.	COLUMN	REQ.	REQUIRED
CONC.	CONCRETE	S.D.	SOAP DISPENSER
CONT.	CONTINUOUS	S.S.	SANITARY SEWER
D.F.	DRINKING FOUNTAIN	SHT.	SHEET
DIA.	DIAMETER	SHTG.	SHEATING
DN.	DOWN	SPEC.	SPECIFICATION
DR.	DOOR	STD.	STANDARD
DRWG.	DRAWING	STL.	STEEL
EA.	EACH	SUSP.	SUSPENDED
E.F.S.	EXTERIOR FINISH SYSTEM	SYS.	SYSTEM
E.I.F.S.	EXT. INSUL. & FIN. SYSTEM	T & G	TONGUE & GROOVE
ELECT.	ELECTRICAL	T.B.C.	TOP BACK OF CURB
ELEV.	ELEVATION	T.T.D.	TOILET TISSUE DISPENSER
E.P.	ELECTRICAL PANEL	T.T.J.	TIGHT TO JOIST
EQ.	EQUAL	TYP.	TYPICAL
EXP.	EXPANSION	U.O.N.	UNLESS OTHERWISE NOTED
EXT.	EXTERIOR	VERT.	VERTICAL
F.E.C.	FIRE EXTINGUISHER CABINET	W	WITH
F.F.	FINISH FLOOR	W	WATER
		W/D	WASHER / DRYER
		W.P.	WATER PROOF

### SCHEDULE OF ALTERNATES

- ADD ALTERNATE NO. 1: OVERHEAD DOORS**  
A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL EXCLUDE INSTALLATION OF OVERHEAD DOORS AND DOOR OPERATORS. JAMB AND HEAD OF OPENING SHALL BE WRAPPED IN PRE-FINISHED METAL TO MATCH EXTERIOR METAL WALL PANELS AS PART OF THE BASE BID. INCLUDE ELECTRICAL ROUGH-IN INCLUDING CONDUCTORS FOR OVERHEAD DOOR OPERATOR AS PART OF BASE BID.  
B. ADD ALTERNATE: ALL WORK ASSOCIATED WITH INSTALLATION OF THE OVERHEAD DOORS INCLUDING DOOR TRACKS, HARDWARE, PUSH-BUTTON CONTROLS AND OVERHEAD DOOR OPERATOR.
- ADD ALTERNATE NO. 2: CONCRETE SLAB ON GRADE**  
A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL INCLUDE ALL SUB-GRADE AND FINISHED GRADE BELOW THE CONCRETE SLAB INCLUDING 6" OF ADDITIONAL COMPACTED BASE IN LIEU OF CONCRETE SLAB ON GRADE. BASE BID SHALL EXCLUDE INSTALLATION OF THE SLOPED CONCRETE SLAB ON GRADE AND CONCRETE APRON.  
B. ADD ALTERNATE: ALL WORK ASSOCIATED WITH THE CONSTRUCTION AND INSTALLATION OF THE 6" THICK CONCRETE SLAB ON GRADE INCLUDING CONCRETE APRON. INTERIOR CONCRETE SLAB SHALL BE SLOPED FROM BACK WALL OF BUILDING TO OVERHEAD DOORS AT 1/8" PER FOOT. 6" THICK CONCRETE APRON SHALL ALSO SLOPE AWAY FROM OVERHEAD DOORS AT 1/4" PER FOOT. CONC. SLAB (ONLY) TO RECEIVE SIKAGARD TOSL OF APPROVED EQ. PREP. SLAB PER MANUF.
- ADD ALTERNATE NO. 3: REVISED SLOPED CONCRETE SLAB FLOOR DRAINS AND ASSOCIATED PLUMBING**  
A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL INCLUDE ALL SUB-GRADE AND FINISHED GRADE BELOW THE CONCRETE SLAB INCLUDING 6" OF ADDITIONAL COMPACTED BASE IN LIEU OF CONCRETE SLAB ON GRADE. BASE BID SHALL EXCLUDE INSTALLATION OF THE SLOPED CONCRETE SLAB ON GRADE AND CONCRETE APRON.  
B. ADD ALTERNATE: IS IN ADDITION TO ADD ALTERNATE #2 AND SHALL INCLUDE COST TO PROVIDE AND INSTALL ALL FLOOR DRAINS AND ASSOCIATED PLUMBING INCLUDING INSTALLATION OF THE SAND AND GREASE INTERCEPTOR. SLOPE THE INTERIOR 6" SLABS TO THE FLOOR DRAINS. 6" THICK CONCRETE APRON SHALL ALSO REMAIN SLOPED AWAY FROM OVERHEAD DOORS AT 1/4" PER FOOT. CONC. SLAB (ONLY) TO RECEIVE SIKAGARD TOSL OF APPROVED EQ. PREP. SLAB PER MANUF.
- ADD ALTERNATE NO. 4: PEMB, INSULATION SYSTEM AND LINER PANEL**  
A. BASE BID: ALL WORK ASSOCIATED WITH CONSTRUCTION OF THE BUILDING INCLUDING SITE GRADING AS DESCRIBED ON AND IN THE DRAWINGS AND SPECIFICATIONS. BASE BID SHALL EXCLUDE INSTALLATION OF PRE-ENGINEERED METAL BUILDING INSULATION SYSTEM AND METAL LINER PANELS.  
B. ADD ALTERNATE: INCLUDES INSTALLATION OF THE PRE-ENGINEERED METAL BUILDING INSULATION SYSTEM IN THE ROOF AND WALLS. ADD ALTERNATE ALSO INCLUDES INSTALLATION OF INTERIOR WALL AND CEILING METAL LINER PANELS.

### SYMBOLS

	EARTH		NEW BUILDING GRID
	EXISTING		EXIST. BUILDING GRID
	WOOD STUDS		ELEVATION
	METAL STUDS		DETAIL NUMBER DETAIL SYMBOL
	CONCRETE		DETAIL NUMBER DETAIL CUT
	CONCRETE BLOCK		SECTION NUMBER WALL SECTION
	BRICK VENEER		SECTION LETTER BUILDING SECTION
	GRAVEL		ELEVATION NUMBER BUILDING ELEVATION
	BLANKET INSULATION		ELEVATION NUMBER WALL ELEVATION
	RIGID INSULATION		TITLE SCALE
	STRUCTURAL WOOD		
	DEMO		
	PLYWOOD		

### VICINITY MAP



### DRAWING INDEX

SHEET NUMBER	SHEET TITLE
<b>GENERAL</b>	
G100	TITLE SHEET
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SP100	OVERALL SITE PLAN
SP101	SITE PLAN
<b>LANDSCAPE DRAWINGS</b>	
L100	GRADING AND LAYOUT PLAN
<b>ARCHITECTURAL DRAWINGS</b>	
A100	FLOOR PLAN
A101	ROOF PLAN
A200	EXTERIOR ELEVATIONS
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A202	WALL SECTIONS
A203	DETAILS
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A500	FINISH SCHEDULE
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S30	FOUNDATION DETAILS
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SE100	ELECTRICAL SITE PLAN
E200	POWER AND MECHANICAL POWER PLANS
E100	LIGHTING PLAN
E300	ELECTRICAL DETAILS

### CONSULTANTS

<b>MYERS ANDERSON ARCHITECTS</b>
MATT FRANKEL 122 S. MAIN STREET SUITE 1 POCATELLO, ID 83240 PH: 208.232.3741 E-MAIL: matt@myersanderson.com
<b>STRUCTURAL ENGINEER</b>
FROST STRUCTURAL ENGINEERING 1020 LINGOLN ROAD IDAHO FALLS, IDAHO 83401 PHONE (208) 227-8404 FAX (208) 227-8405
<b>MECHANICAL ENGINEER &amp; ELECTRICAL ENGINEER</b>
MUSGROVE ENGINEERING 645 W. 25TH ST IDAHO FALLS, ID 83402 PHONE: (208) 523-2862 FAX: (208) 523-2864

### PROJECT DESCRIPTION

NEW 5,000 SQUARE FOOT PRE-ENGINEERED METAL BUILDING TO HOUSE EQUIPMENT FOR THE IDAHO TRANSPORTATION DEPARTMENT. BUILDING IS 50'-0" X 100'-0" AND INCLUDES 5 TOTAL BAYS. PROJECT INCLUDES ELECTRICAL LIGHTING AND RECEPTACLES.

### SPECIAL INSPECTION

COORD. w/ STRUCTURAL

### GENERAL NOTES

- THE ARCHITECT OF RECORD IS NOT RESPONSIBLE FOR INTERPRETING THE INTENT OF THESE CONSTRUCTION DOCUMENTS, INCLUDING MAKING MODIFICATIONS AS MAY BE NECESSARY DURING THE CONSTRUCTION PHASE. THE ARCHITECT OF RECORD IS NOT LIABLE FOR THE WORK WHERE CHANGES TO THESE DOCUMENTS HAVE BEEN MADE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWINGS AND NOT SCALED FROM DRAWINGS. THE ARCHITECT SHALL FURNISH ANY MISSING DIMENSIONS UPON WRITTEN REQUEST.
- ALL WORK SHALL CONFORM TO PREVAILING CODES, ORDINANCES AND REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION AND SHALL PAY ALL APPLICABLE FEES.
- DO NOT DISTRIBUTE PARTIAL SETS OF DRAWINGS OR SPECIFICATIONS. INFORMATION AFFECTING THE WORK OF OTHER TRADES MAY BE COVERED ON OTHER SHEETS.

CHAPTER 3				CHAPTER 7				CHAPTER 10				LOCATION AND CODES																											
USE AND OCCUPANCY				FIRE AND SMOKE PROTECTIONS				MEANS OF EGRESS				PROPERTY																											
LEVEL	OCCUPANCY TYPE (302.1)	OCCUPANCY LOAD FACTOR (1004.1.2)	OCCUPANCY AREA	MAX. OCCUPANCY LOAD	NUMBER OF EXITS (1006.2.1)				ITD SUBLETT MAINTENANCE STATION NO. Y432 2900 EAST 1400 SOUTH (184 EXIT 245) SUBLETT, IDAHO 83342																														
					OCCUPANCY	MAX OCC. LOAD	REQUIRED EXITS	PROVIDED EXITS																															
1	S-1	300 GROSS	5,000 S.F.			17	1	3	CURRENTLY ADOPTED CODES																														
TOTAL OCCUPANCY																																							
CHAPTER 4				CHAPTER 8				CHAPTER 29																															
REQUIREMENTS BASED ON USE				INTERIOR FINISHES				PLUMBING																															
				INTERIOR WALL AND CEILING REQUIREMENTS BY OCCUPANCY (TABLE 803.11)				LAND USE ZONE = N/A																															
				OCCUPANCY TYPE	CLASS	FLAME SPREAD	SMOKE																																
				S-1	C	16-200	0-450	IBC CODE 2018 OCCUPANCY GROUPS: S-1 CONSTRUCTION TYPE: VB AREA OF BUILDING: 5,000 S.F. FIRE SPRINKLERS: NO FIRE ALARM SYSTEM: NO																															
CHAPTER 5				CHAPTER 9				CHAPTER 29																															
BUILDING HEIGHTS AND AREAS				FIRE PROTECTION SYSTEMS				PLUMBING																															
ALLOWED HEIGHT (TABLE 504.3)				AUTOMATIC SPRINKLER SYSTEM				<table border="1"> <thead> <tr> <th rowspan="2">LEVEL</th> <th rowspan="2">OCCUPANCY TYPE (302.1)</th> <th colspan="2">WATER CLOSETS REQUIRED/PROVIDED 1 PER 100</th> <th colspan="2">LAVATORIES REQUIRED/PROVIDED 1 PER 100</th> <th rowspan="2">DRINKING FOUNTAINS REQUIRED/PROVIDED 1 PER 1000</th> <th rowspan="2">SERVICE SINKS REQUIRED/PROVIDED 1 PER FLOOR</th> </tr> <tr> <th>FEMALE</th> <th>MALE</th> <th>FEMALE</th> <th>MALE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>S-1</td> <td>.17/1</td> <td>.17/1</td> <td>.17/1</td> <td>.17/1</td> <td>.017/1</td> <td>1/1</td> </tr> <tr> <td colspan="2">TOTALS:</td> <td>1/1</td> <td>1/1</td> <td>1/1</td> <td>1/1</td> <td>1/1</td> <td>1/1</td> </tr> </tbody> </table>				LEVEL	OCCUPANCY TYPE (302.1)	WATER CLOSETS REQUIRED/PROVIDED 1 PER 100		LAVATORIES REQUIRED/PROVIDED 1 PER 100		DRINKING FOUNTAINS REQUIRED/PROVIDED 1 PER 1000	SERVICE SINKS REQUIRED/PROVIDED 1 PER FLOOR	FEMALE	MALE	FEMALE	MALE	1	S-1	.17/1	.17/1	.17/1	.17/1	.017/1	1/1	TOTALS:		1/1	1/1	1/1	1/1	1/1	1/1
LEVEL	OCCUPANCY TYPE (302.1)	WATER CLOSETS REQUIRED/PROVIDED 1 PER 100		LAVATORIES REQUIRED/PROVIDED 1 PER 100		DRINKING FOUNTAINS REQUIRED/PROVIDED 1 PER 1000	SERVICE SINKS REQUIRED/PROVIDED 1 PER FLOOR																																
		FEMALE	MALE	FEMALE	MALE																																		
1	S-1	.17/1	.17/1	.17/1	.17/1	.017/1	1/1																																
TOTALS:		1/1	1/1	1/1	1/1	1/1	1/1																																
OCCUPANCY TYPE	TYPE OF CONSTRUCTION	ALLOWED HEIGHT	ACTUAL HEIGHT	MAX DISTANCE TO FIRE EXTINGUISHER 906.3(1)				75 FEET																															
S-1	VB	40'-0"	24'-2"																																				
ALLOWED STORIES (TABLE 504.4)																																							
OCCUPANCY TYPE	TYPE OF CONSTRUCTION	ALLOWED STORIES	ACTUAL STORIES																																				
S-1	VB	1	1																																				
ALLOWED BUILDING AREA (506.2)																																							
OCCUPANCY TYPE	TYPE OF CONSTRUCTION	ALLOWED AREA SQ.FT. PER FLOOR	ACTUAL AREA SQ.FT. PER FLOOR																																				
S-1	VB	9,000	5,000																																				
CHAPTER 6				NOTES																																			
TYPES OF CONSTRUCTION																																							
TYPE OF CONSTRUCTION (602.1)																																							
FIRE RESISTIVE REQ. FOR BLDG. ELEMENTS (TABLE 601)																																							
PRIMARY STRUCTURAL FRAME EXTERIOR BEARING WALLS INTERIOR BEARING WALLS NON BEARING EXTERIOR WALLS FLOOR CONSTRUCTION ROOF/FLOOR ABOVE CONSTRUCTION				<input type="checkbox"/> HR <input type="checkbox"/> HR <input type="checkbox"/> HR <input type="checkbox"/> HR <input type="checkbox"/> HR <input type="checkbox"/> HR																																			

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PROJECT: ITD SUBLETT EQUIPMENT BUILDING  
 SHEET TITLE: CODE REVIEW  
 SUBLETT, IDAHO

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.  
 DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE  
 REVISION: DATE  
 DRAWN BY:  
 CHECKED BY: MF  
 JOB NUMBER: 22568  
 PROJECT DATE: MAY 2023  
 SHEET: G101



PROJECT:  
**ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

SHEET TITLE:

**CODE REVIEW PLAN**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY:

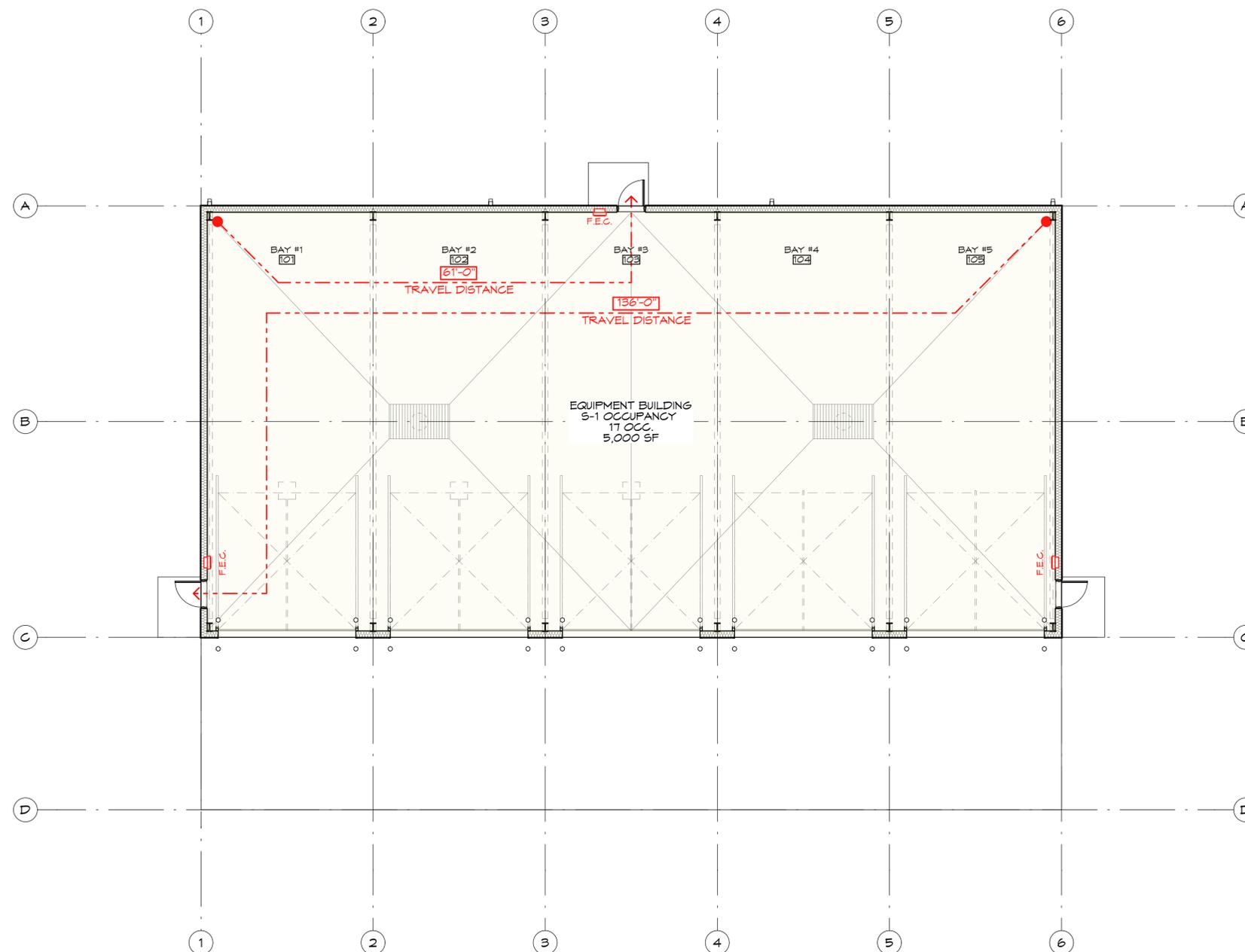
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JOB NUMBER: 22568

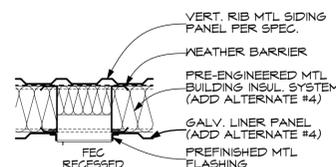
PROJECT DATE: MAY 2023

SHEET

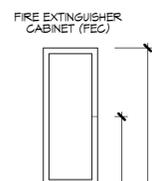
**G102**



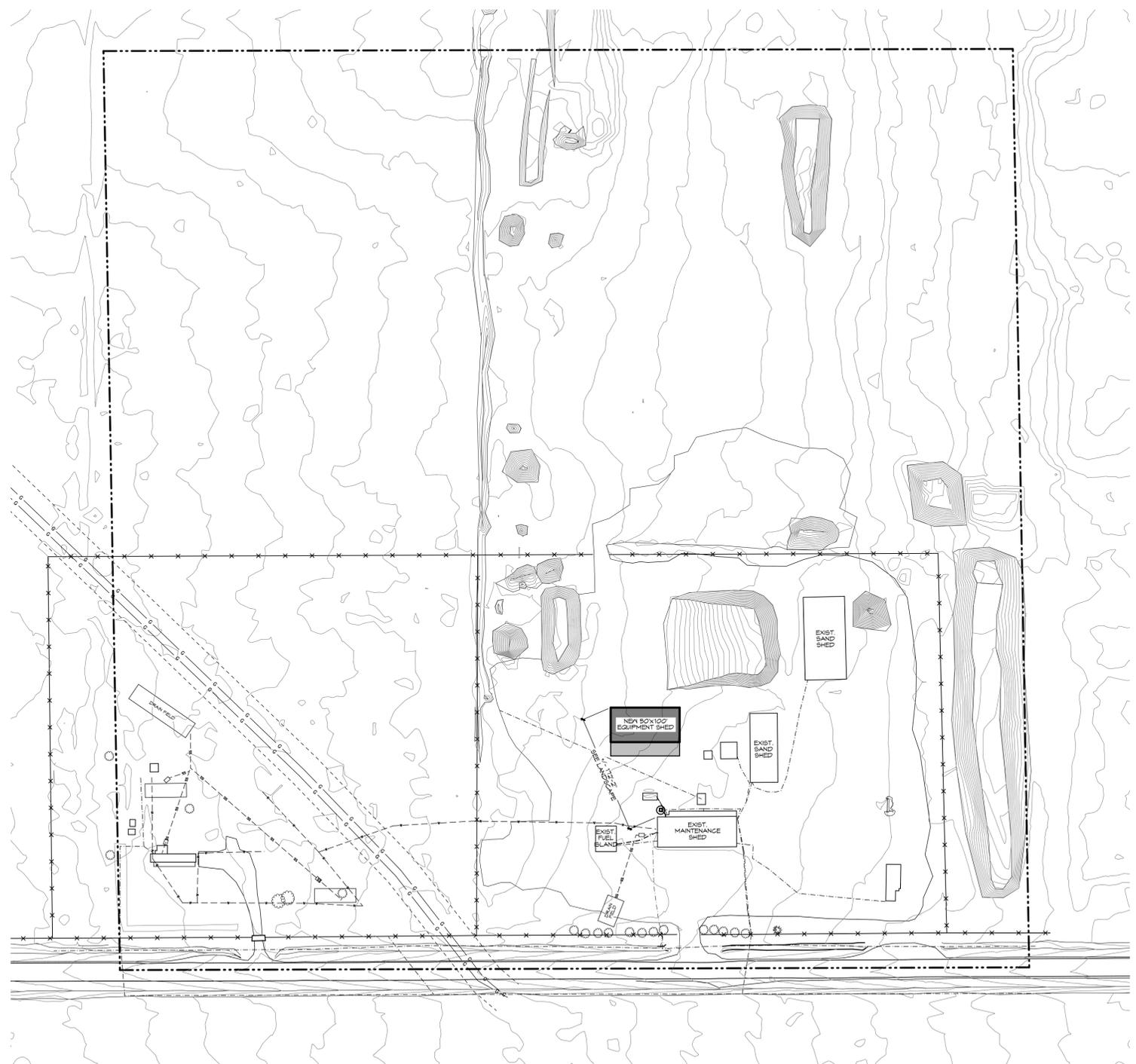
**F.E.C. NOTES:**  
 FIRE EXTINGUISHER CABINETS TO BE INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE FIRE EXTINGUISHERS. REFER TO SHEET G102 FOR F.E.C. LOCATIONS.



**F.E.C. DETAIL**  
 SCALE: 3/4" = 1'-0"



**F.E.C. ELEVATION**  
 SCALE: 3/4" = 1'-0"



1 OVERALL SITE PLAN  
 SP100 SCALE: 1" = 100'



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PROJECT: **ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

SHEET TITLE:  
**OVERALL SITE PLAN**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

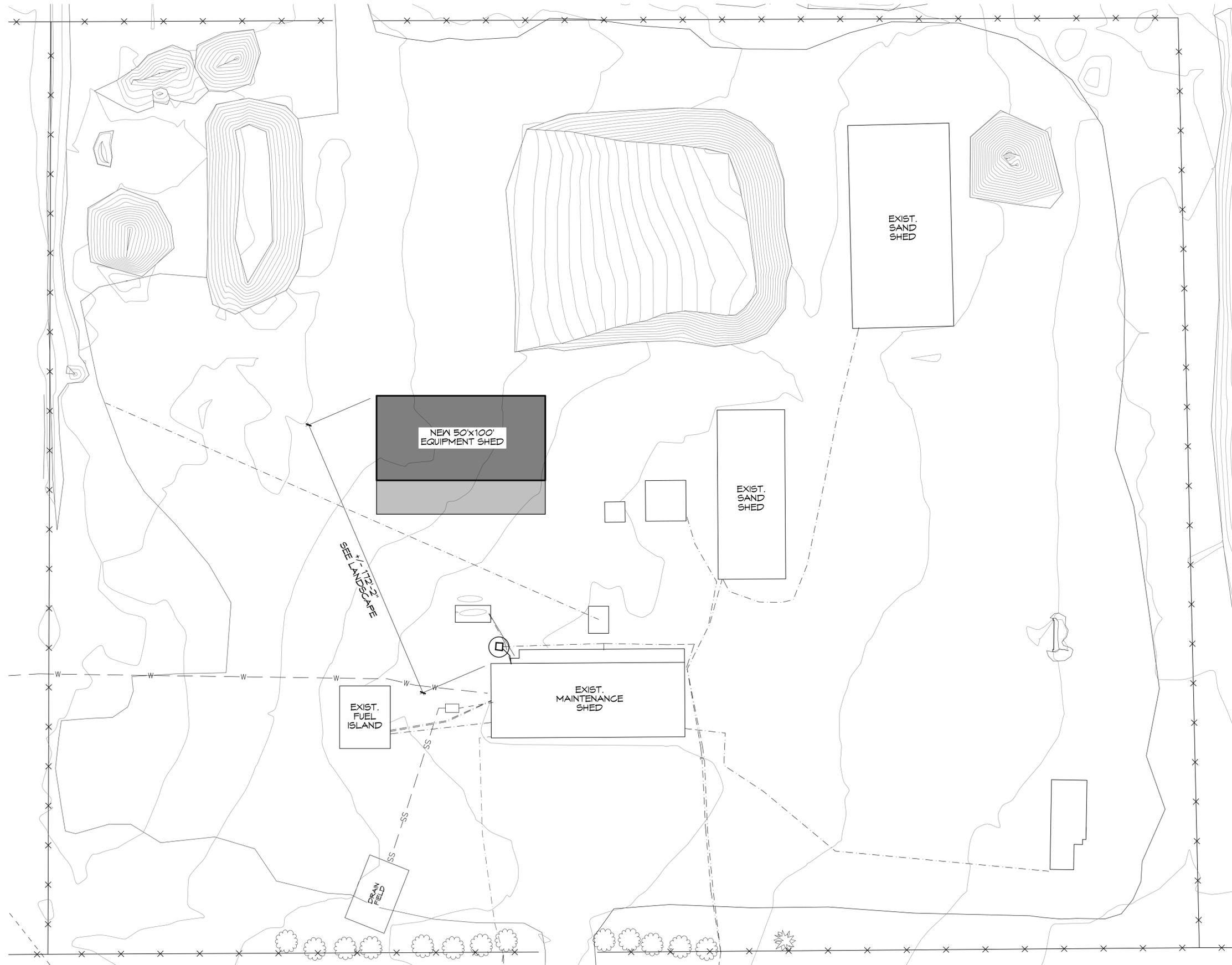
DRAWN BY:

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JOB NUMBER: 22568

PROJECT DATE: MAY 2023

SHEET **SP100**



1 SITE PLAN  
 EP101 SCALE: 1" = 30'

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AIA NCARB ASID

PROJECT:  
**ITD SUBLITT EQUIPMENT BUILDING**  
**SUBLITT, IDAHO**

SHEET TITLE:

**SITE PLAN**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY:

CHECKED BY: MF

JOB NUMBER: 22566

PROJECT DATE: MAY 2023

SHEET  
**SP101**





PROJECT: **ITD SUBLETT EQUIPMENT BUILDING**  
 SHEET TITLE: **SUBLETT, IDAHO**

**GRADING AND LAYOUT PLAN**

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DRAWING SCALE APPLIES TO 22' X 34' SHEET SIZE

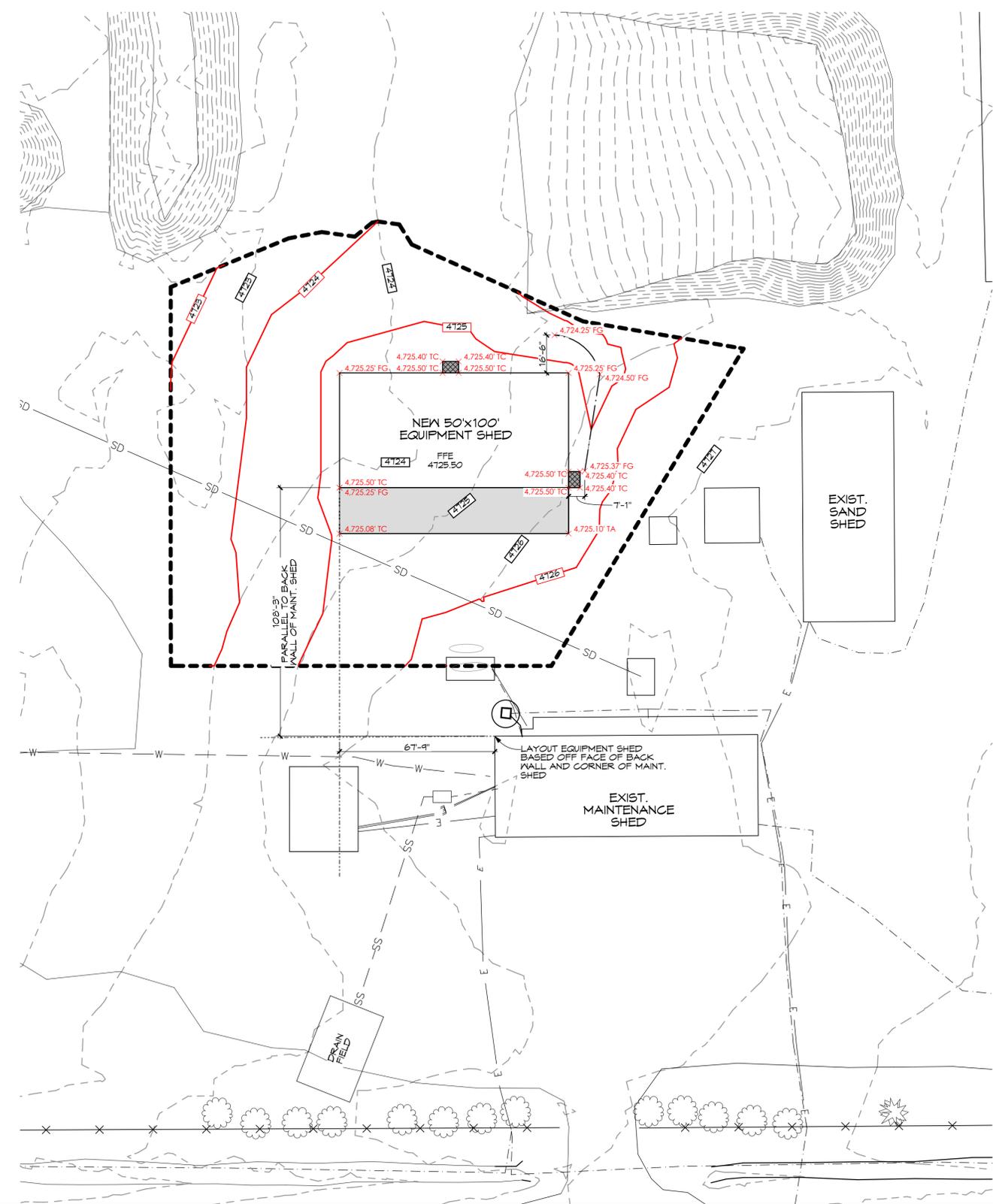
REVISION	DATE

DRAWN BY: IH  
 CHECKED BY: RC

JOB NUMBER: 22568

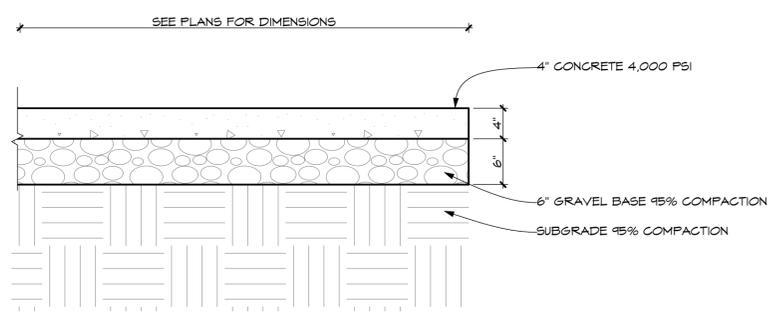
PROJECT DATE: April 2023

SHEET **L100**

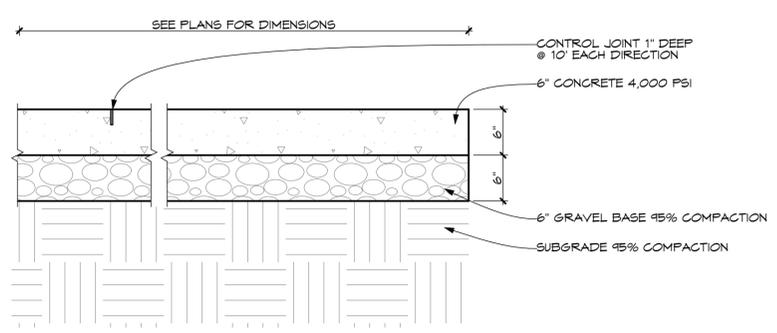


**SITE PLAN LEGEND:**

SS	SANITARY SEWER LINE
SD	STORM DRAIN LINE
G	GAS LINE
E	ELECTRICAL LINE
W	WATER LINE
---	PROPERTY LINES
---	GRADING EXTENTS
X	FENCE
3262	EXISTING TOPO. CONTOUR
3262	PROPOSED TOPO. CONTOUR
---	FLOW LINE OF SWALE
x 3.261.25	SPOT ELEVATION
2%	DRAINAGE ARROW & SLOPE
[Hatched Box]	NEW 6" CONCRETE SLAB (ADD ALT #2)
[Dotted Box]	NEW 4" CONCRETE SLAB (ADD ALT #2)
TC	TOP OF CONCRETE
FG	FINISH GRADE
FFE	FINISH FLOOR



**3 CONCRETE PAD**  
 SCALE: 1" = 1'-0"



**2 CONCRETE PAD**  
 SCALE: 1" = 1'-0"

**1 GRADING PLAN**  
 SCALE: 1" = 30'





PROJECT:  
**ITD SUBLETT EQUIPMENT BUILDING**

**SUBLETT, IDAHO**

SHEET TITLE:

**FLOOR PLAN**

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DRAWING SCALE APPLIES TO 22' X 34' SHEET SIZE

REVISION	DATE

DRAWN BY:

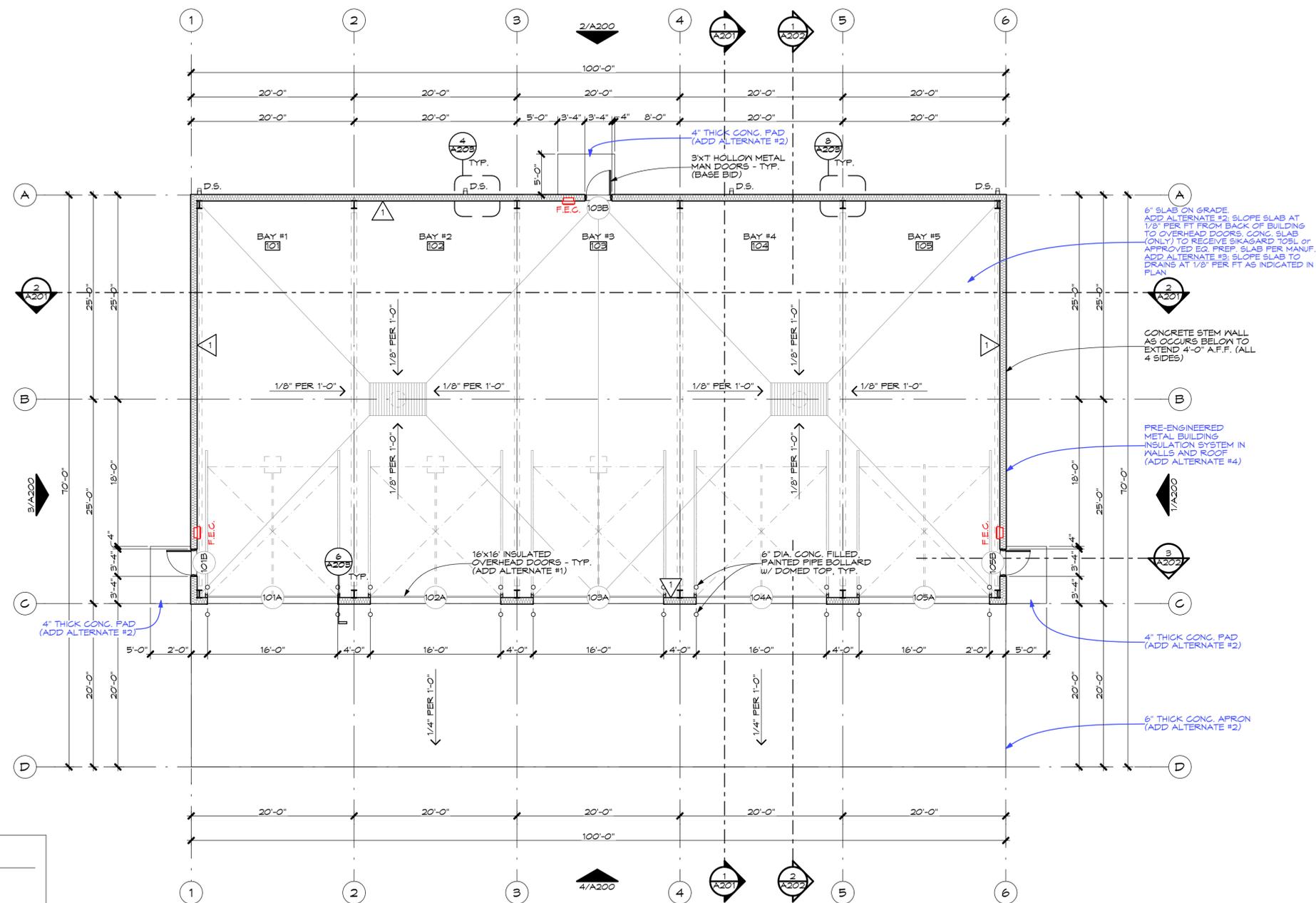
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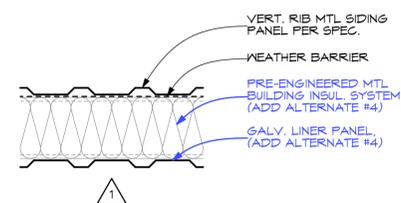
PROJECT DATE: MAY 2023

SHEET

**A100**

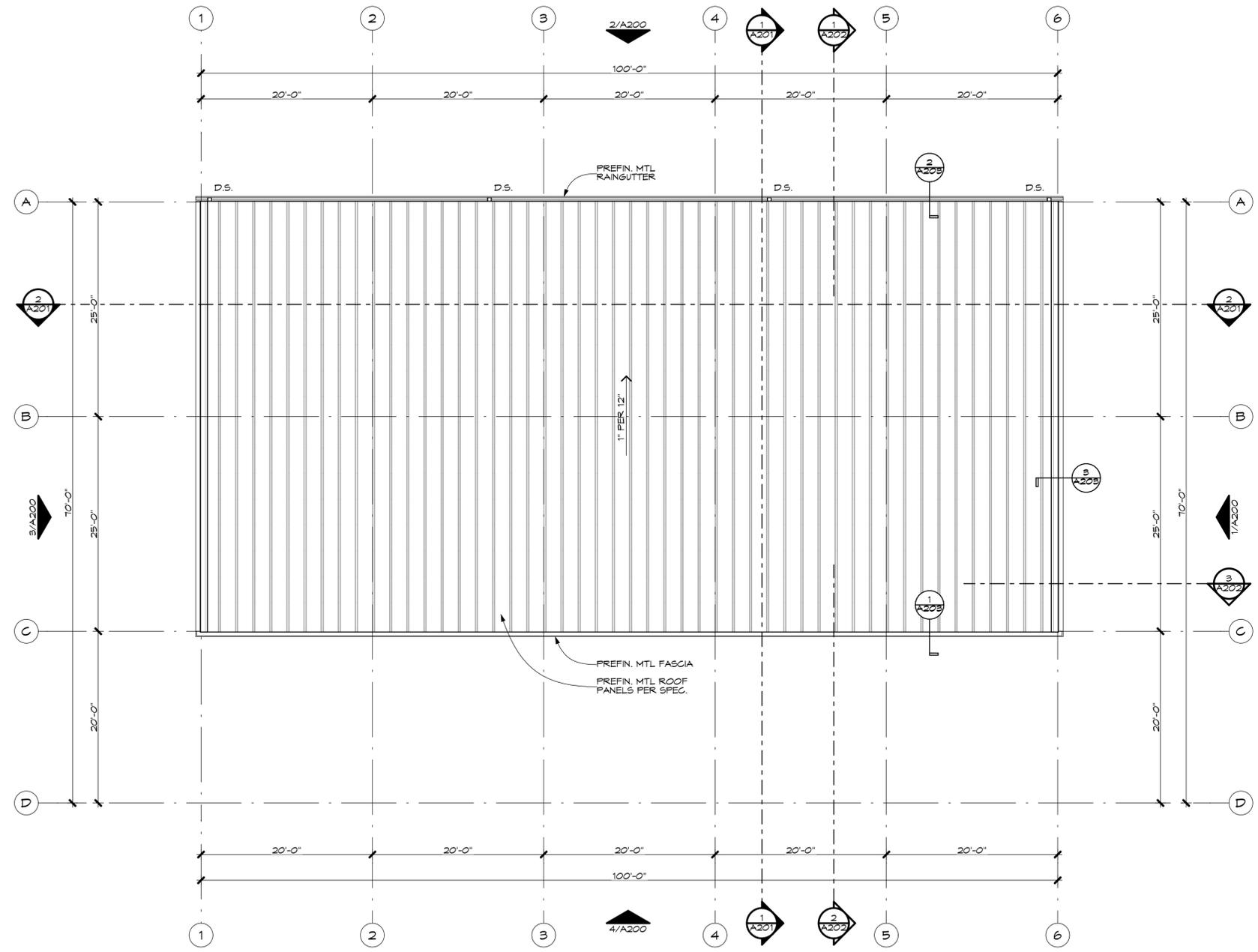


**WALL TYPE SCHEDULE**



**1 FLOOR PLAN**  
SCALE: 1/8" = 1'-0"





1 ROOF PLAN  
A101 SCALE: 1/8" = 1'-0"



PROJECT:  
**ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

SHEET TITLE:  
**ROOF PLAN**

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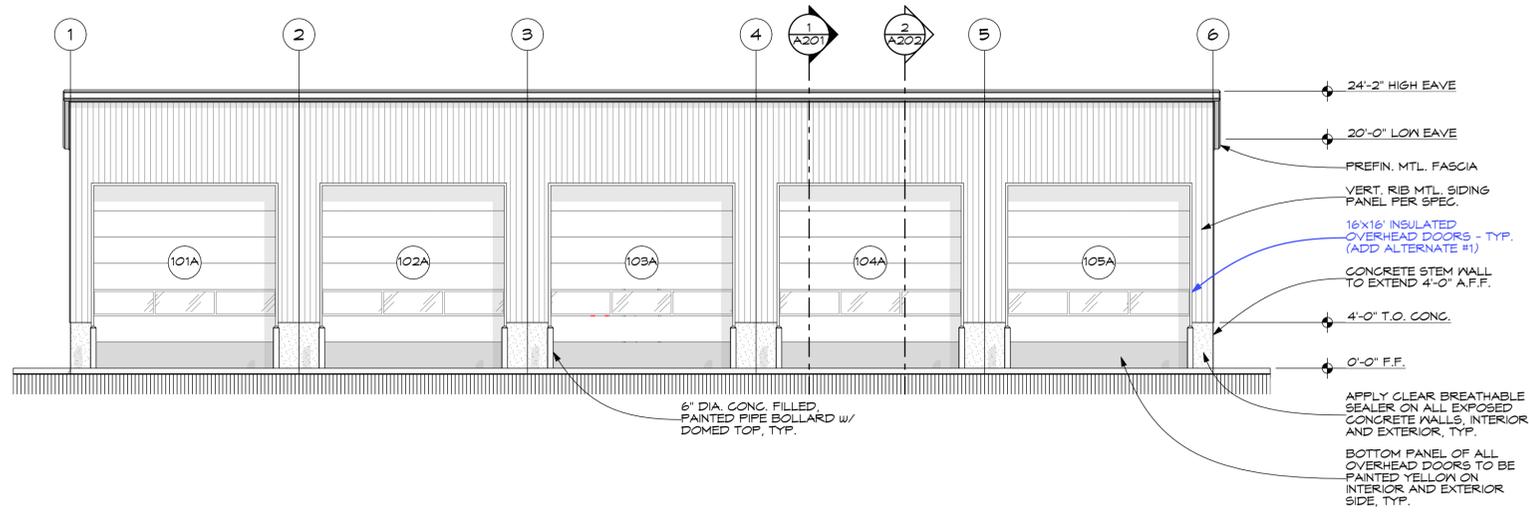
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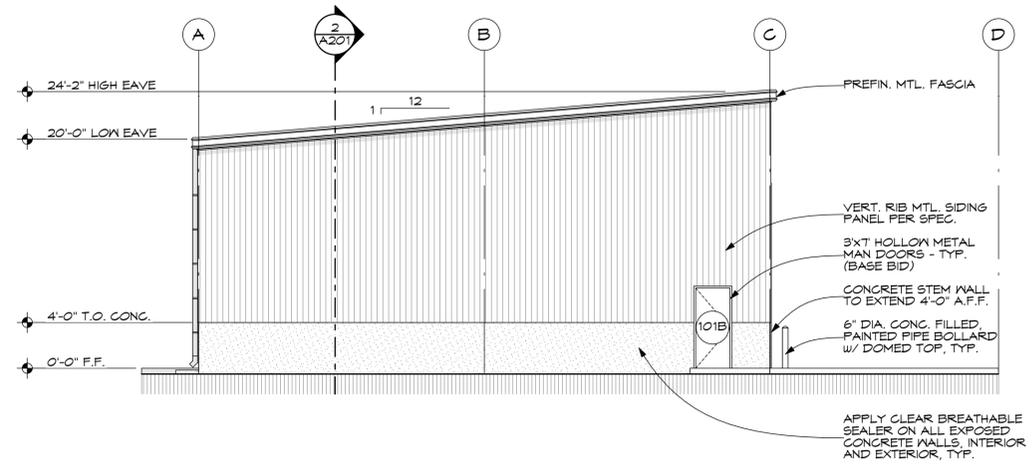
PROJECT DATE: MAY 2023

SHEET  
**A101**

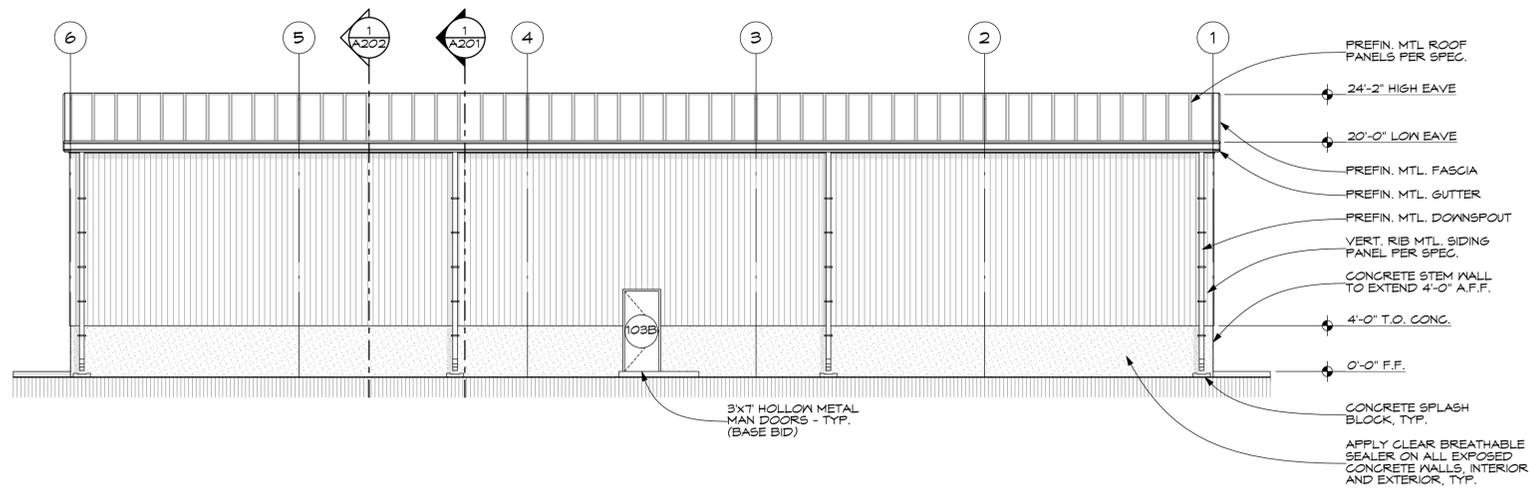




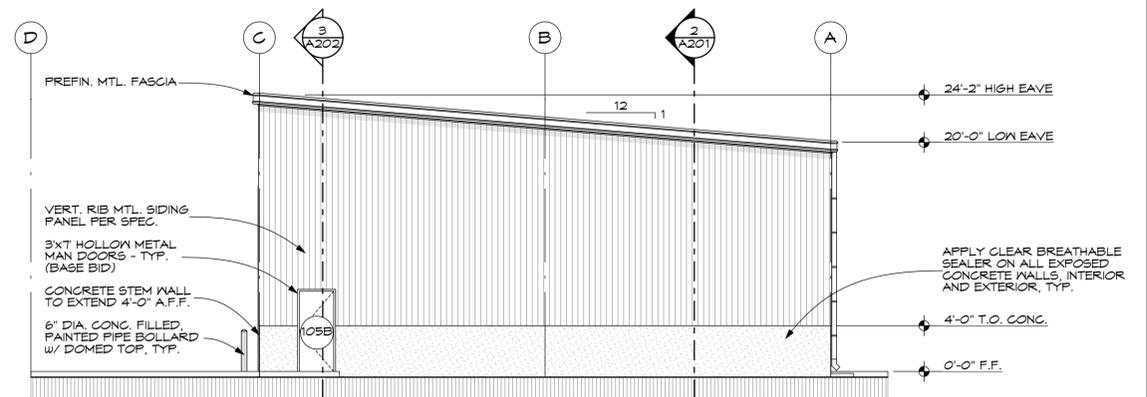
**4 SOUTH ELEVATION**  
A200  
1/8" = 1'-0"



**3 WEST ELEVATION**  
A200  
1/8" = 1'-0"



**2 NORTH ELEVATION**  
A200  
1/8" = 1'-0"



**1 EAST ELEVATION**  
A200  
1/8" = 1'-0"



SHEET TITLE:

**EXTERIOR ELEVATIONS**

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DRAWING SCALE APPLIES TO 22' X 34' SHEET SIZE

REVISION      DATE

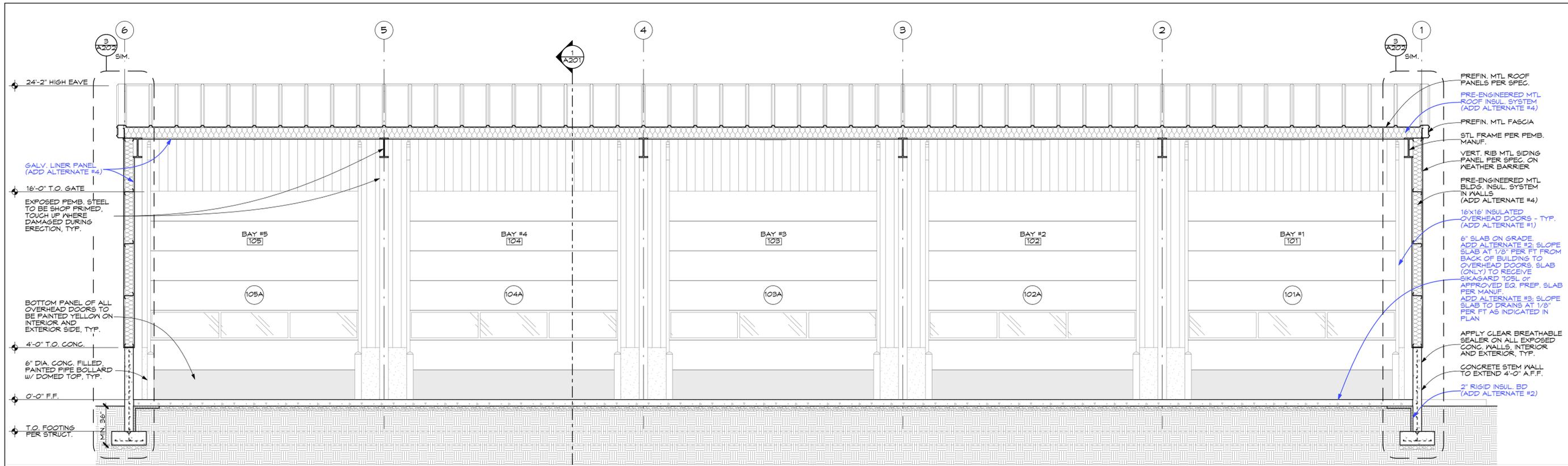
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CHECKED BY: MF

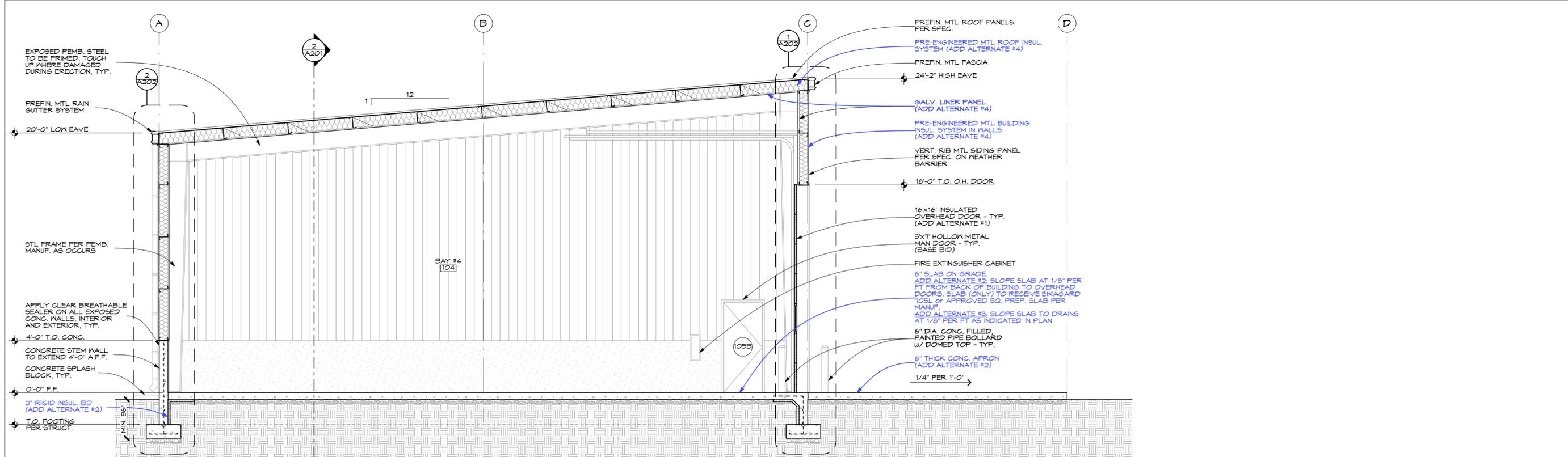
JOB NUMBER: 22566

PROJECT DATE: MAY 2023

SHEET **A200**



**2 BUILDING SECTION**  
 A201 SCALE: 1/4" = 1'-0"



**1 BUILDING SECTION**  
 A201 SCALE: 1/4" = 1'-0"

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122 South Main Street • Pocatello, Idaho 83204 • Tel. (208) 232-3741 • Fax. (208) 232-3782  
 927 Main Street, Suite 300 • Evanston, Wyoming 82930 • Tel. (307) 789-0934

REGISTERED PROFESSIONAL ARCHITECT  
 ID 987379  
 MATTHEW FRANKEL  
 STATE OF IDAHO  
 12/12/2018

AIA NCARB ASD

PROJECT: **ITD SUBLETT EQUIPMENT BUILDING**

SHEET TITLE: **SUBLETT, IDAHO**

**BUILDING SECTIONS**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

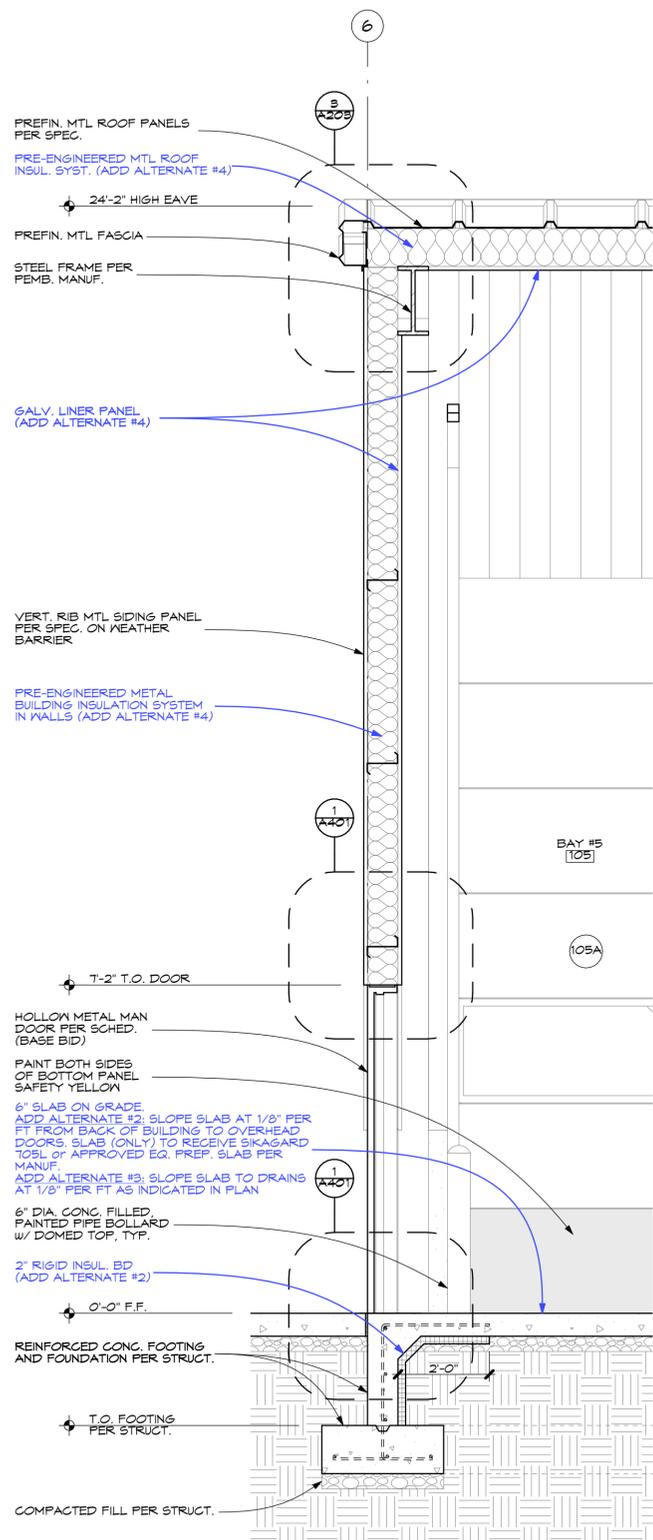
DRAWN BY: \_\_\_\_\_

CHECKED BY: MF

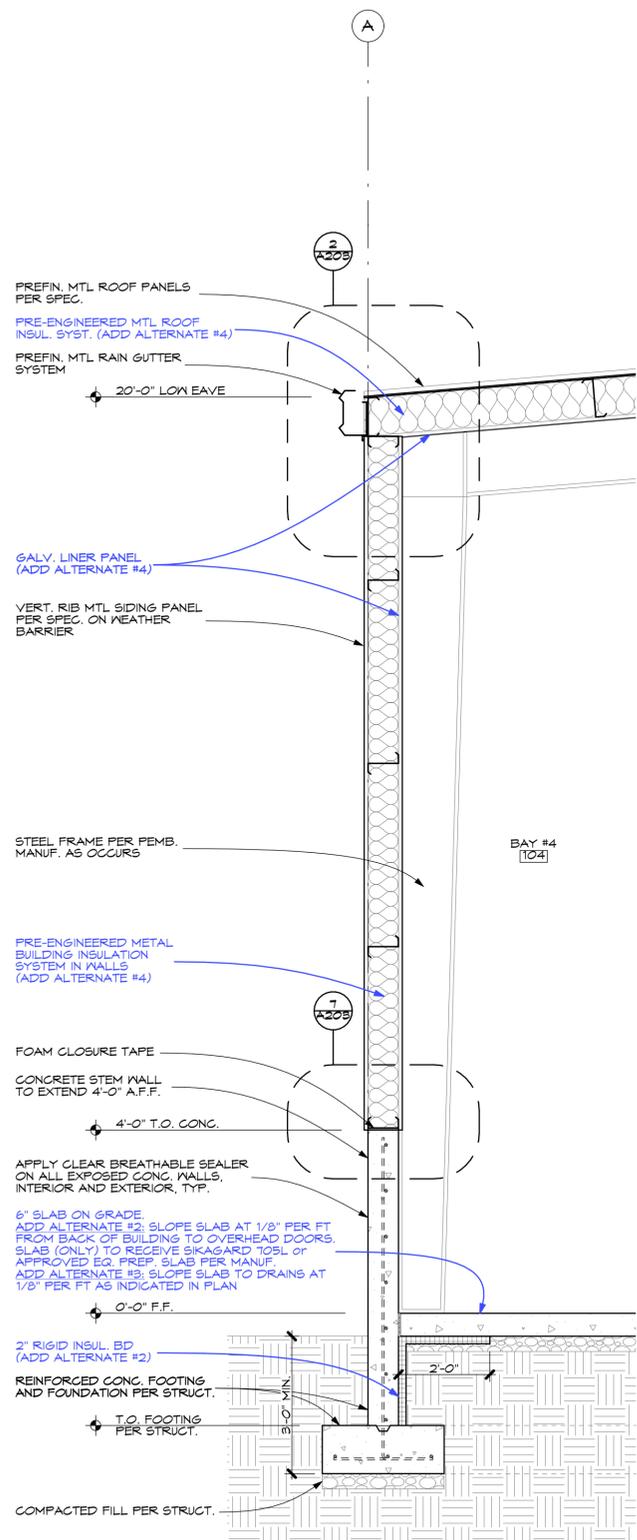
JOB NUMBER: 22568

PROJECT DATE: MAY 2023

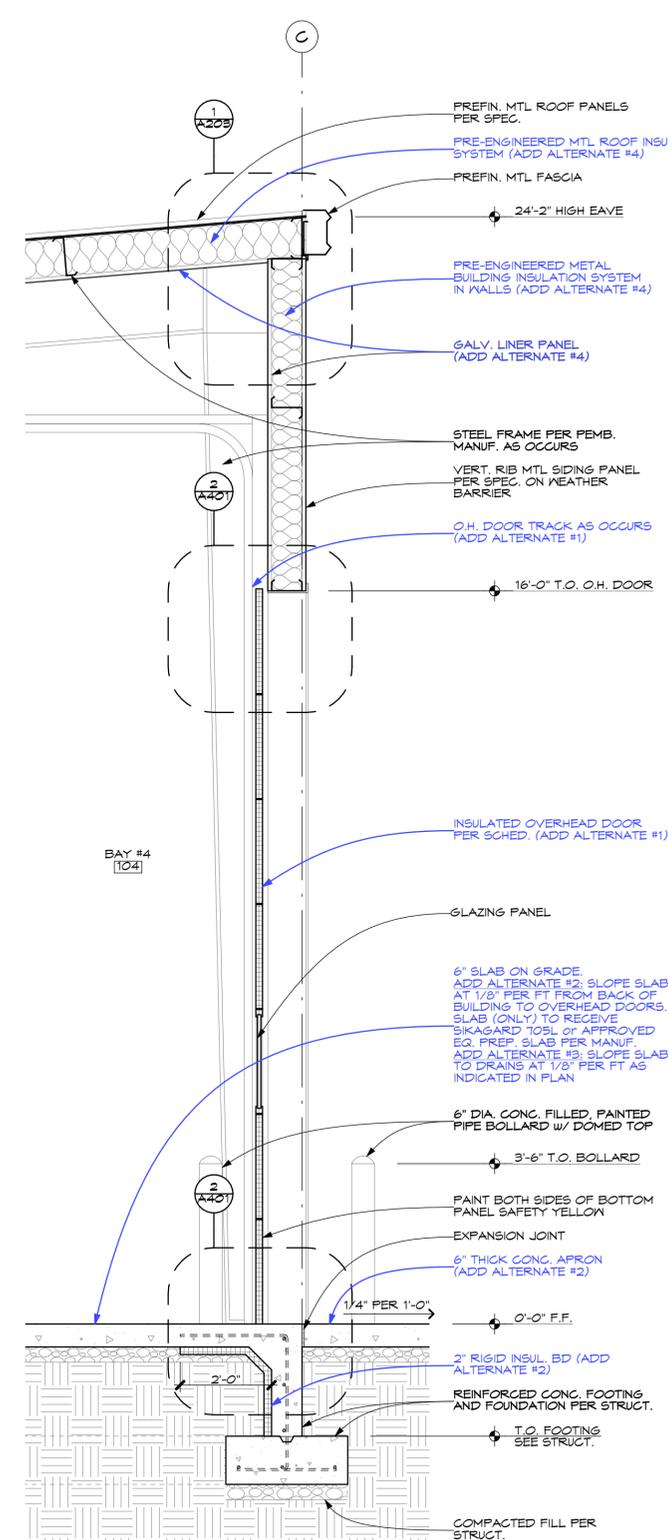
SHEET **A201**



3 WALL SECTION  
A202 SCALE: 1/2" = 1'-0"



2 WALL SECTION  
A202 SCALE: 1/2" = 1'-0"



1 WALL SECTION  
A202 SCALE: 1/2" = 1'-0"



PROJECT:  
**ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

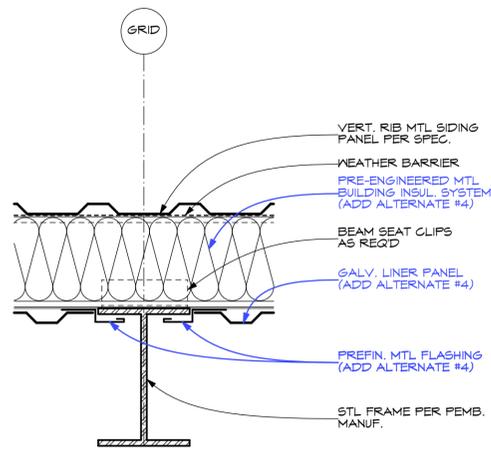
SHEET TITLE:  
**WALL SECTIONS**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.

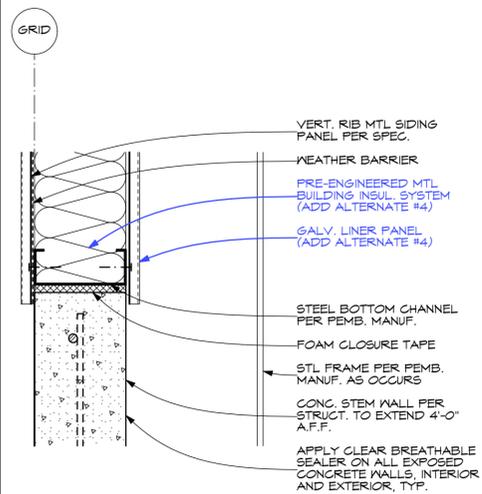
DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

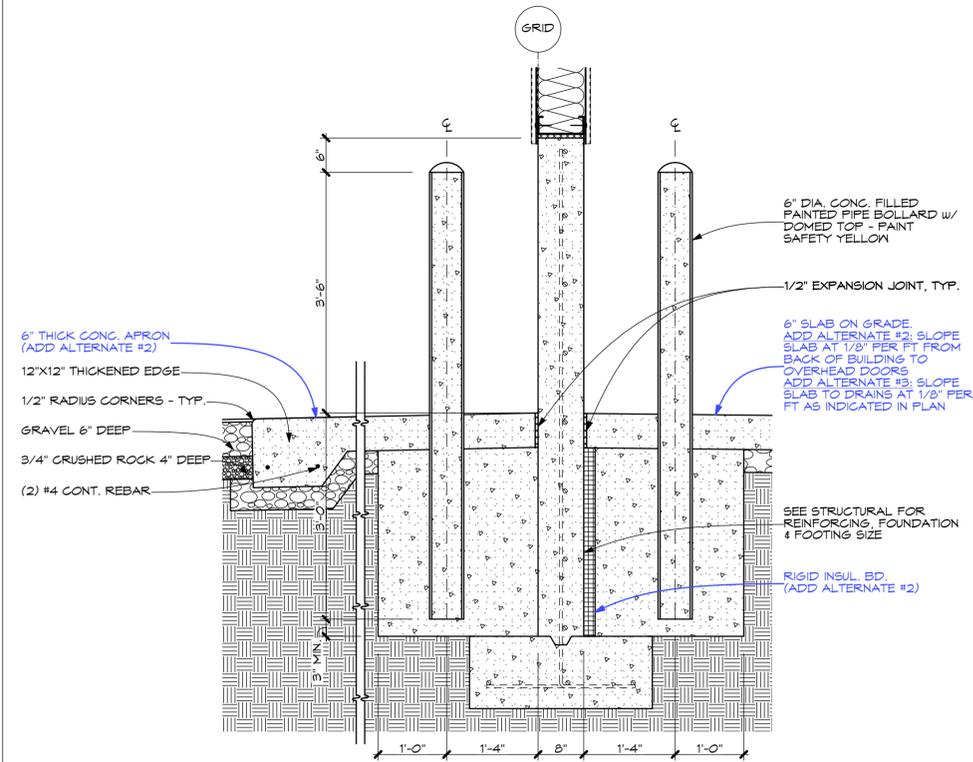
DRAWN BY:  
 CHECKED BY: MF  
 JOB NUMBER: 22568  
 PROJECT DATE: MAY 2023  
 SHEET  
**A202**



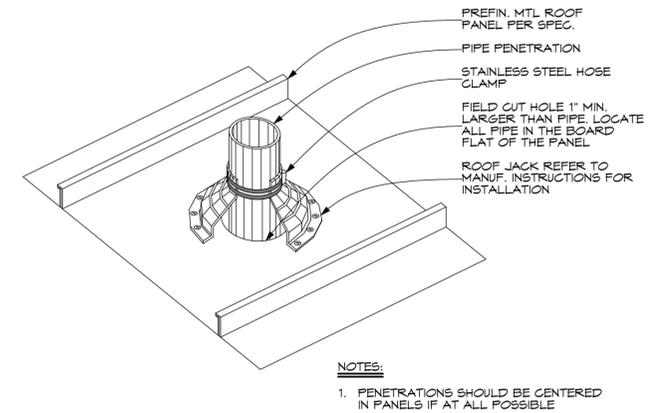
**8 WALL DETAIL**  
 A203 SCALE: 1 1/2" = 1'-0"



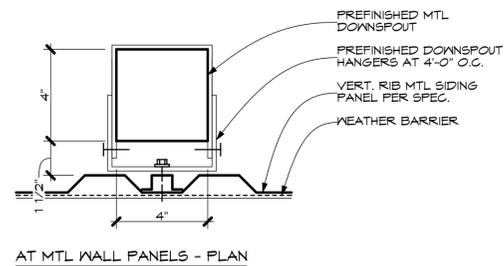
**7 WALL DETAIL**  
 A203 SCALE: 1 1/2" = 1'-0"



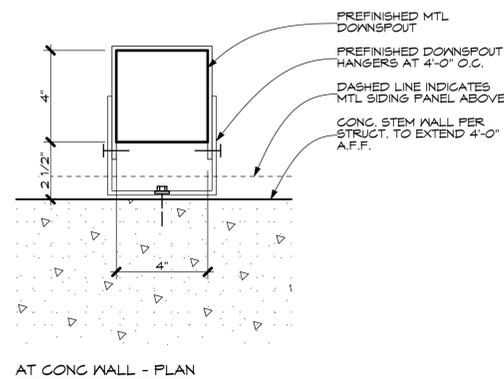
**6 BOLLARD DETAIL**  
 A203 SCALE: 3/4" = 1'-0"



**5 ROOF PENETRATION DETAIL**  
 A203 SCALE: 3" = 1'-0"

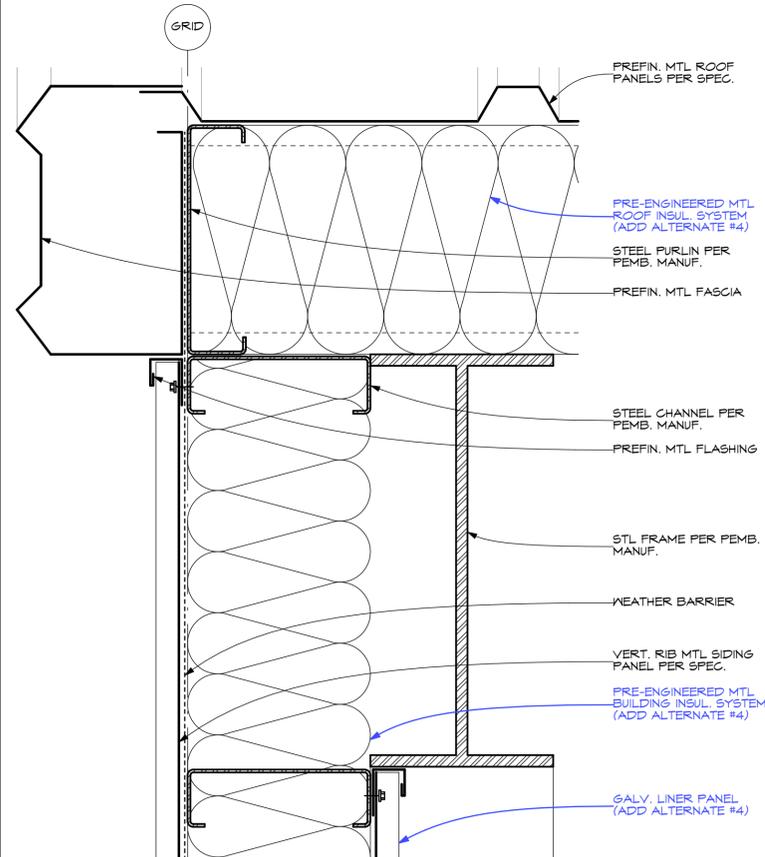


AT MTL WALL PANELS - PLAN

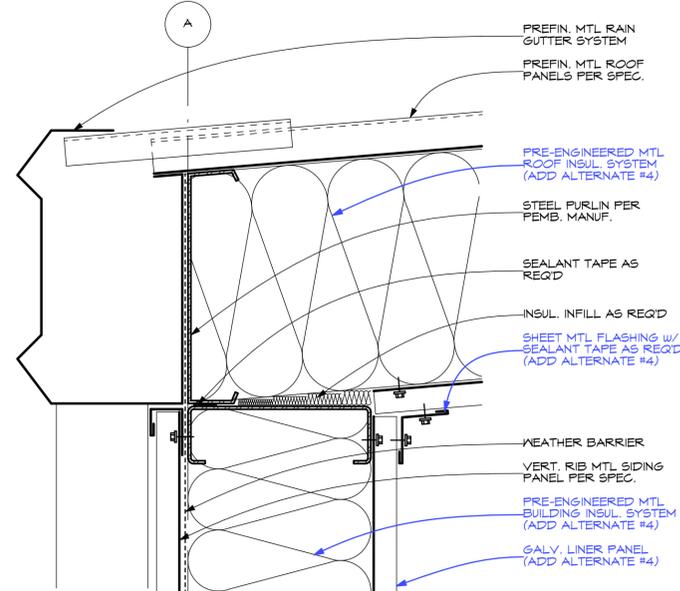


AT CONG WALL - PLAN

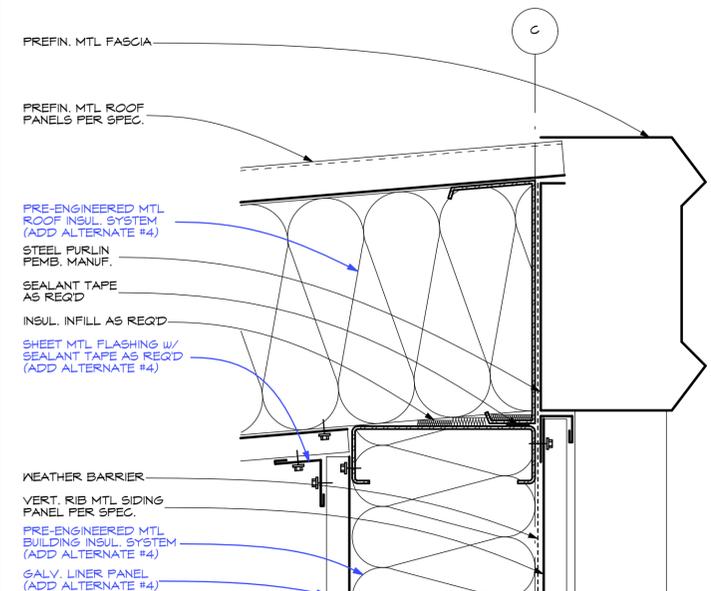
**4 DOWNSPOUT DETAIL**  
 A203 SCALE: 3" = 1'-0"



**3 ROOF DETAIL**  
 A203 SCALE: 3" = 1'-0"



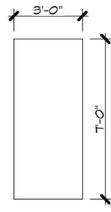
**2 ROOF DETAIL**  
 A203 SCALE: 3" = 1'-0"



**1 ROOF DETAIL**  
 A203 SCALE: 3" = 1'-0"

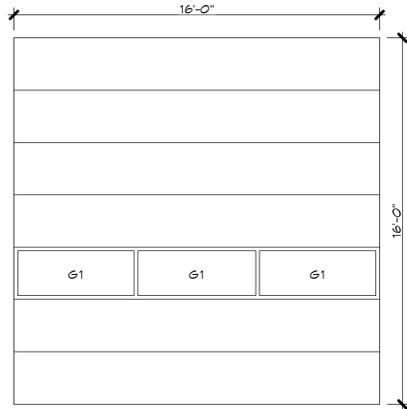


**DOOR TYPES**



1

**OVERHEAD DOOR TYPES**



OH1

**FRAME TYPES**



A

**LEGEND**

<b>HINGES</b>		
H1	TA 2714 4 1/2 x 4 1/2	MCKINNEY
H2	TA 2714 4 1/2 x 4 1/2 NRF	MCKINNEY
<b>LOCKS</b>		
L1: ENTRANCE	93KTAB 15D 626	BEST
L2: PASSAGE	93KON 15D 626	BEST
L3: STORAGE	93KTD 15D 626	BEST
L4: OFFICE/GLASS	93KTE 15D 626	BEST
L6: CYLINDER	E SERIES	BEST
L6: PRIVACY	93KTL 15D 626	BEST
<b>CLOSERS</b>		
G1	COMMERCIAL GRADE T50	NORTON
<b>KICKPLATES</b>		
K1	V1994	STANLEY
<b>STOPS</b>		
S1	CD20-4011 WALL	STANLEY
S2	SP4202 FLOOR	STANLEY
<b>WEATHER STRIPPING</b>		
WS1	303CFK	PEMCO
<b>SMOKE SEALS</b>		
SS1	303CFK	PEMCO
<b>DOOR SWEEP</b>		
DS1	18062CF	PEMCO
<b>THRESHOLD</b>		
T1	172A	PEMCO
<b>EXIT DEVICE</b>		
ED1	99L	VON DUFRIN
<b>PUSH/PULLS</b>		
P1	8303-8 PULL	IVES
P2	8200-8 PUSH	IVES
<b>GLAZING</b>		
G1	1" INSULATED, GLASS - TEMPERED	

**NOTES:**

- HARDWARE BY DOOR SUPPLIER w/ FULL SHOP DWG REVIEW FOR APPROVAL.
- LOCKING MECHANISM w/ EXT. KEY PAD, POWERED DOOR. GLAZING BY DOOR MANUF.
- ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED. REFER TO FINISH SCHEDULE.
- PROVIDE AUTOMATIC JACKSHAFT (SEE SPEC.) DOOR OPERATOR, COORDINATE w/ MTL. BLDG. MANUF. & ELEC. DRINGS.
- INCLUDE MAN DOORS IN BASE BID.
- PROVIDE COMPLETE WEATHERSTRIPPING AROUND OVERHEAD DOOR.

**DOOR SCHEDULE**  
(ADD ALTERNATE #1)

DOOR NUMBER	SINGLE / PAIR	SIZE			DOOR		FRAME		LABEL	HINGES	LOCK TYPE	GLAZING	KEYING	CLOSERS	PUSH	PULL	KICKPLATES	STOPS	WEATHERSTRIP	SMOKE SEAL	DOOR SWEEP	THRESHOLD	EXIT DEVICE	REMARKS	DETAIL	DOOR NUMBER
		WID.	HGT.	THK.	MAT.	TYPE	MAT.	WID.																		
101B	S	3'-0"	T'-0"	1 3/4"	H.M.	1	H.M.	7 5/8"	A	---	H2	L1	---	C1	---	---	K1	---	WS1	---	DS1	T1	---	NOTE #1, 3 & 5	1/A401	101B
103B	S	3'-0"	T'-0"	1 3/4"	H.M.	1	H.M.	7 5/8"	A	---	H2	L1	---	C1	---	---	K1	---	WS1	---	DS1	T1	---	NOTE #1, 3 & 5	1/A401	103B
105B	S	3'-0"	T'-0"	1 3/4"	H.M.	1	H.M.	7 5/8"	A	---	H2	L1	---	C1	---	---	K1	---	WS1	---	DS1	T1	---	NOTE #1, 3 & 5	1/A401	105B

**OVERHEAD DOOR SCHEDULE**  
(ADD ALTERNATE #1)

DOOR NUMBER	SINGLE / PAIR	SIZE			DOOR		FRAME		LABEL	HINGES	LOCK TYPE	GLAZING	KEYING	CLOSERS	PUSH	PULL	KICKPLATES	STOPS	WEATHERSTRIP	SMOKE SEAL	DOOR SWEEP	THRESHOLD	EXIT DEVICE	REMARKS	DETAIL	DOOR NUMBER	
		WID.	HGT.	THK.	MAT.	TYPE	MAT.	TRACK																			
101A	S	16'-0"	16'-0"	2"	MTL	OH1	MTL	3"	---	---	---	G1	---	---	---	---	---	---	---	---	---	---	---	NOTE #2, 4 & 6	2/A401	101A	
102A	S	16'-0"	16'-0"	2"	MTL	OH1	MTL	3"	---	---	---	G1	---	---	---	---	---	---	---	---	---	---	---	---	NOTE #2, 4 & 6	2/A401	102A
103A	S	16'-0"	16'-0"	2"	MTL	OH1	MTL	3"	---	---	---	G1	---	---	---	---	---	---	---	---	---	---	---	---	NOTE #2, 4 & 6	2/A401	103A
104A	S	16'-0"	16'-0"	2"	MTL	OH1	MTL	3"	---	---	---	G1	---	---	---	---	---	---	---	---	---	---	---	---	NOTE #2, 4 & 6	2/A401	104A
105A	S	16'-0"	16'-0"	2"	MTL	OH1	MTL	3"	---	---	---	G1	---	---	---	---	---	---	---	---	---	---	---	---	NOTE #2, 4 & 6	2/A401	105A



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DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

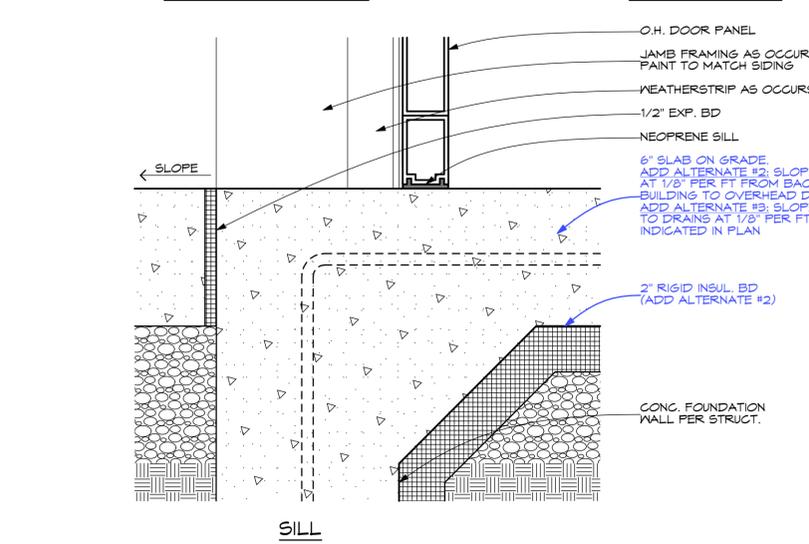
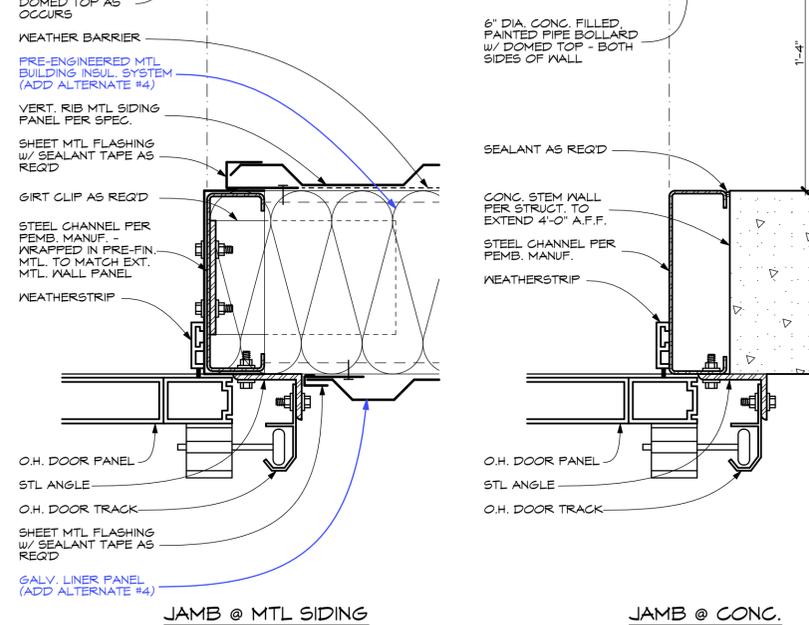
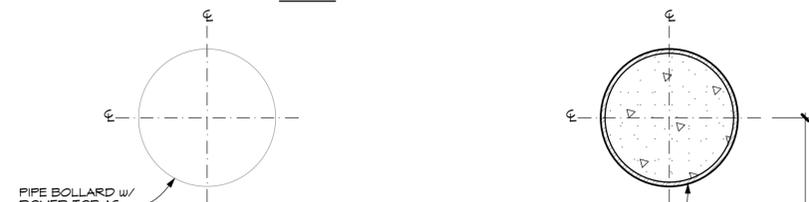
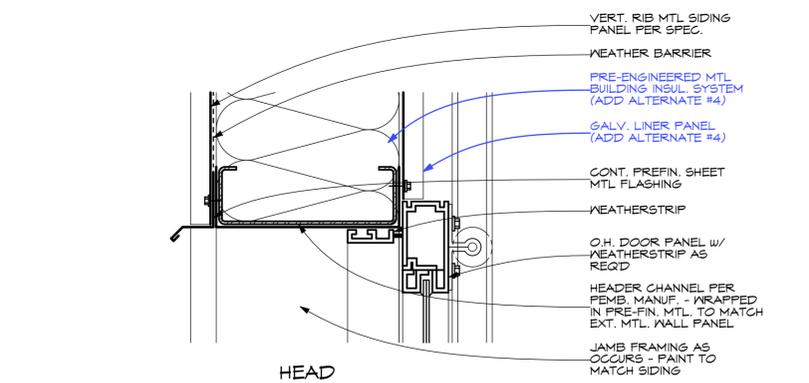
REVISION \_\_\_\_\_ DATE \_\_\_\_\_

DRAWN BY: \_\_\_\_\_

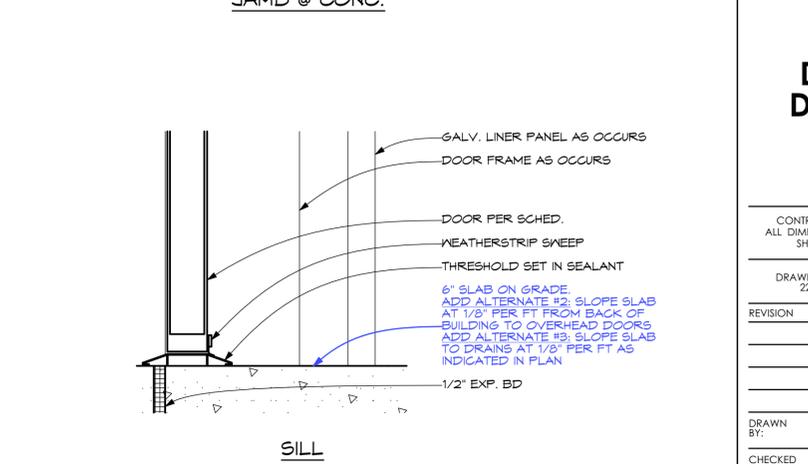
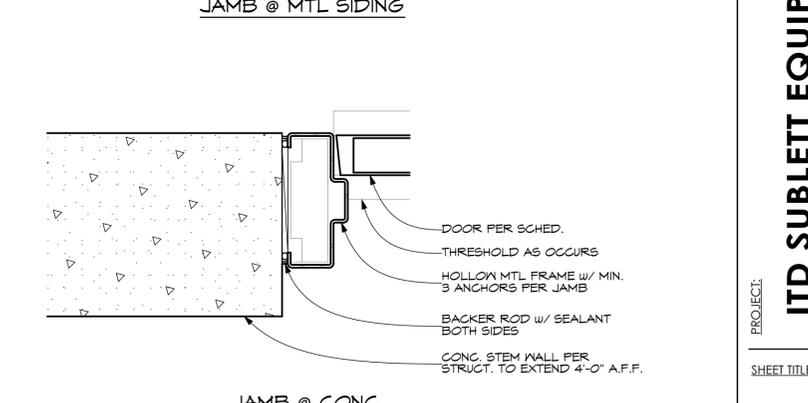
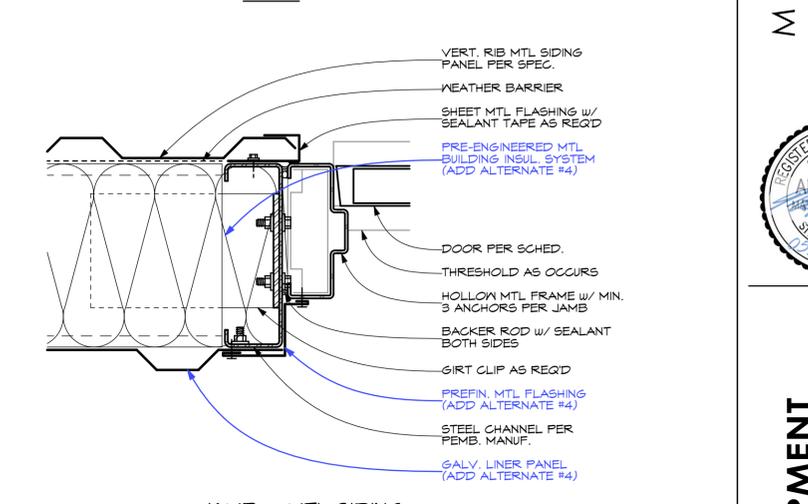
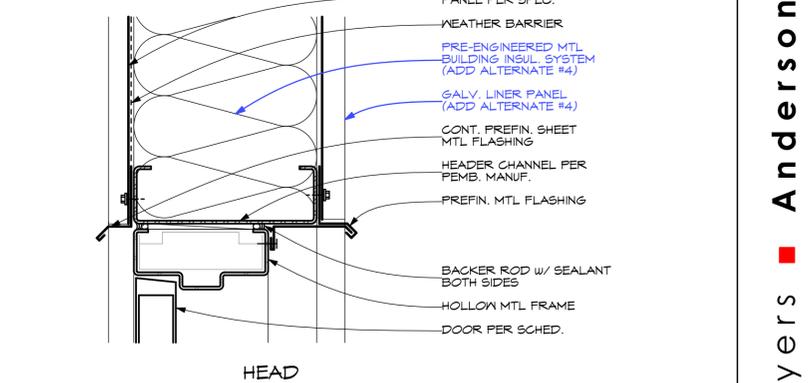
CHECKED BY: MF

JOB NUMBER: 22568

PROJECT DATE: MAY 2023



**2** O.H. DOOR DETAIL - ADD ALTERNATE #1  
**A401** SCALE: 3" = 1'-0"



**1** MAN-DOOR DETAIL - BASE BID  
**A401** SCALE: 3" = 1'-0"



PROJECT:  
**ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

SHEET TITLE:  
**DOOR DETAILS**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: MF  
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 JOB NUMBER: 22568  
 PROJECT DATE: MAY 2023  
 SHEET **A401**

**FINISHES**

- FLOOR**  
F1 CONCRETE
- WALLS**  
W1 LINER PANEL (ADD ALTERNATE)
- CEILING**  
C1 LINER PANEL

**FINISH SCHEDULE**

ROOM NUMBER	ROOM DESCRIPTION	FLOOR FINISH	COLOR #	BASE FINISH	COLOR #	WALLS								TRIM	CEILING			REMARKS	ROOM NUMBER	
						EAST		SOUTH		WEST		NORTH			FINISH	COLOR #	HEIGHT			
						FINISH	COLOR #													
101	BAY #1	F1	CON-1	---	---	---	---	---	---	W1	---	---	---	---	---	C1	---	VARIES		101
102	BAY #2	F1	CON-1	---	---	---	---	---	---	W1	---	---	---	---	---	C1	---	VARIES		102
103	BAY #3	F1	CON-1	---	---	---	---	---	---	W1	---	---	---	---	---	C1	---	VARIES		103
104	BAY #4	F1	CON-1	---	---	---	---	---	---	W1	---	---	---	---	---	C1	---	VARIES		104
105	BAY #5	F1	CON-1	---	---	---	---	---	---	W1	---	---	---	---	---	C1	---	VARIES		105

**COLORS**

- FLOOR**  
CON-1 TROWELED CONCRETE, (2) COATS CLEAR SEALER
- ADD ALTERNATE #2: SLAB (ONLY) TO RECEIVE SIKAGARD TOSL OF APPROVED EQ. PREP. SLAB PER MANUF.

**NOTES**

- ALL PEMB STRUCTURAL STEEL, PURLINS AND WALL CHANNELS TO BE SHOP PRIMED. TOUCH UP IN FIELD WHERE DAMAGED DURING ERECTION
- PAINT ALL HOLLOW METAL DOORS AND FRAMES PER SPECIFICATIONS. COLOR TO BE SELECTED BY ARCHITECT
- PAINT ALL BOLLARDS SAFETY YELLOW
- PAINT BOTTOM PANELS OF ALL OVERHEAD DOORS SAFETY YELLOW



**Myers Anderson**  
 ■ Architecture  
 ■ Interior Design  
 ■ Historic Preservation  
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**SUBLETT, IDAHO**

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SHEET

# GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

## GENERAL REQUIREMENTS:

- THE STRUCTURAL SYSTEMS AND MEMBERS DEPICTED HEREIN HAVE BEEN DESIGNED PRIMARILY TO SAFEGUARD AGAINST MAJOR STRUCTURAL DAMAGE AND LOSS OF LIFE, NOT TO LIMIT DAMAGE OR MAINTAIN FUNCTION (IBC SECTION 101.3).
- THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
- THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS.
- WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES. DRAWINGS AND SUBCONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
- ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT. SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.
- SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED UPON HIS REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECT. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER THE STRUCTURAL ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A STRUCTURAL ENGINEER REGISTERED IN THE APPROPRIATE STATE. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER ARE NOT TO BE CONSIDERED CHANGES TO ORIGINAL DRAWINGS. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ALLOW (5) WORKING DAYS FOR THE STRUCTURAL ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE STRUCTURAL ENGINEER'S RECORDS.

## BASIS FOR DESIGN:

- BUILDING CODE: 2018 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS.  
RISK CATEGORY = II
- VERTICAL LOAD: PER PRE-ENGINEERED BUILDING MANUFACTURER
- SEISMIC DESIGN PARAMETERS: PER PRE-ENGINEERED BUILDING MANUFACTURER
- WIND DESIGN PARAMETERS: PER PRE-ENGINEERED BUILDING MANUFACTURER

## FOUNDATION NOTES:

- FOUNDATIONS DESIGNED IN CONFORMANCE WITH RECOMMENDATIONS BY: ATLAS TECHNICAL CONSULTANTS, LLC REPORT NO. T2272706g DATED February 13, 2023.
- SITE PREPARATION AND GRADING REQUIREMENTS OF THE SOIL REPORT AND ANY ADDENDUM'S SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. ANY TESTS OR INSPECTIONS REQUIRED BY THE SOIL REPORT SHALL BE PERFORMED PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL OR CONCRETE. ALTERATIONS TO SITE PREPARATION OR GRADING SHALL BE REPORTED TO THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.

THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

ALLOWABLE BEARING PRESSURE	2000 PSF
ALLOWABLE LATERAL BEARING PRESSURE	397 PSF/FT
ALLOWABLE LATERAL SLIDING COEFFICIENT	0.35

- A ONE-THIRD INCREASE IN BEARING PRESSURES IS ALLOWED WITH SEISMIC OR WIND LOAD COMBINATIONS. LATERAL BEARING AND LATERAL SLIDING RESISTANCE MAY BE COMBINED.

FOUNDATION BEARING DEPTH
30" BELOW FINISHED GRADE

- ALL FOUNDATIONS SHALL BEAR ON COMPACTED ENGINEERED FILL OR COMPETENT NATIVE SOIL SUBBASE COMPACTED TO 95% DRY DENSITY (AS DETERMINED BY ASTM D1557). OBJECTIONABLE SOIL TYPES, EXCESSIVELY LOOSE, OR SOFT SOILS SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL. GRADE IS DEFINED AS LOWEST ADJACENT GRADE WITHIN 5 FEET OF THE BUILDING FOR PERIMETER FOOTINGS. WHERE EXTERIOR PAVING OR CONCRETE IS DIRECTLY ADJACENT TO BUILDING, GRADE IS DEFINED AS TOP OF EXTERIOR PAVING AT LEAST 5 FEET FROM BUILDING. CONCRETE FOOTING EXCAVATIONS SHALL BE CLEAN AND FREE OF LOOSE DEBRIS OR UN-COMPACTED MATERIAL AT TIME OF CONCRETE PLACEMENT.
- CONCRETE SLABS ON GRADE SHALL BE SUPPORTED ON A 4 INCH (MIN) LAYER OF FREE-DRAINING GRANULAR MAT (DRAINAGE FILL COURSE). THE MAT SHOULD CONSIST OF A WELL GRADED SAND AND GRAVEL MIXTURE WITH MAXIMUM 3/4-INCH CRUSHED AGGREGATE. THE GRANULAR MAT SHOULD BE COMPACTED TO NO LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. IF UNCONTROLLED FILL IS ENCOUNTERED, IT SHALL BE EXCAVATED A MINIMUM OF 12" BELOW EXISTING GRADE. AFTER EXCAVATION OF THE UNCONTROLLED FILL, IF PORTIONS OF UNCONTROLLED FILL REMAIN, IT SHALL BE COMPACTED TO NO LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. SUBGRADE SHALL BE BUILT UP WITH COMPACTED STRUCTURAL FILL. ORGANIC, LOOSE OR COMPRESSIVE MATERIALS SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.

## REINFORCING STEEL:

- ASTM A615 GRADE 60 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS #4 AND LARGER. ASTM A615 GRADE 40 (FY = 40 KSI) DEFORMED BARS FOR ALL BARS #3 AND SMALLER. GRADE 60 DEFORMED BARS SHALL BE USED FOR CONCRETE WALLS, BEAMS, ELEVATED SLABS AND COLUMN REINFORCING.
- WELDING OF REINFORCING BARS SHALL BE MADE ONLY TO ASTM A706 GRADE 60 BARS AND ONLY USING E90 SERIES RODS. WELDING OF REINFORCING BARS SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS.
- REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

## CONCRETE:

- MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

USE:	CONCRETE STRENGTH:	MAX W/C RATIO	AIR ENTRAINMENT
FOOTINGS	3500 PSI	0.50	5.5% ± 1%
CONCRETE WALLS	4500 PSI	0.45	5.5% ± 1%
CONCRETE SLABS ON GRADE	4000 PSI	0.45	N/A

- ALL NORMAL WEIGHT CONCRETE SHALL BE REGULAR WEIGHT OF 150 POUNDS PER CUBIC FOOT USING HARD-ROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33.
- LAP SPLICES FOR BEAMS AND FLOOR SLABS SHALL BE ACCORDING TO CHAPTER 12 OF ACI 318 OR LAP SCHEDULE ON THESE DRAWINGS.

STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES.

- ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" OR "CLR" ARE TO CENTER OF STEEL. MINIMUM COVER FOR NON-PRESTRESSED CONCRETE REINFORCING SHALL BE AS FOLLOWS:

LOCATION:	MINIMUM COVER	TOLERANCE
CAST AGAINST EARTH (FOOTINGS)	3"	± 3/8"
SLABS ON GRADE	1 1/2"	± 1/4"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER	1 1/2"	± 3/8"
EXPOSED TO EARTH OR WEATHER - #6 AND LARGER	2"	± 3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND ROOF SLAB	1"	1/8"
STRUCTURAL SLABS AND WALLS	3/4"	1/8"
BEAMS AND COLUMNS (PRIMARY) REINFORCEMENT, TIES, STIRRUPS AND SPIRALS	1 1/2"	3/8"

- MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 6". PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH ALKALINE SOIL, AND TYPE II ELSEWHERE.
- NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY THE TESTING AGENCY.
- CONCRETE PLACEMENT AND QUALITY SHALL BE PER RECOMMENDATIONS IN ACI 614, ACI 301 AND ACI 318. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND AND UNDER FLOOR DUCTS, ETC. CAST CLOSURE POUR, WHERE SHOWN ON PLANS AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.

- ALL CONCRETE SLABS ON GRADE SHALL BE DIVIDED INTO AREAS BY CONTROL JOINTS (KEYED OR SAW CUT) SUCH THAT ONE SLAB AREA DOES NOT EXCEED A MAXIMUM LENGTH OF 24 TIMES THE SLAB THICKNESS IN BOTH DIRECTIONS (EXAMPLE: 4" SLAB = 8'-0" LENGTH). SQUARE LAYOUTS ARE PREFERRED, BUT THE SLAB GEOMETRY MAY DICTATE OTHERWISE. THE RATIO OF THE LONG TO SHORT DISTANCE SHALL NOT EXCEED 1.3. IT IS RECOMMENDED THAT SAW CUTS BE MADE WITHIN 18 HOURS OF CONCRETE BATCHING.

KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT.

- HORIZONTAL PIPES AND ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE AND SLABS ON GRADE EXCEPT WHERE SPECIFICALLY APPROVED OR NOTED BY THE STRUCTURAL ENGINEER. PIPES AND CONDUITS SHALL NOT IMPAIR THE STRENGTH OF THE WORK.
- FLY ASH MAY BE USED ONLY IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS AND SHALL BE LIMITED TO 18 PERCENT OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.
- COLD/HOT WEATHER CONCRETE CONSTRUCTION: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH IN COMPLIANCE WITH ACI 305 AND 306.
- CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.
- LIMIT ALKALI-SILICA REACTION (ASR) TO 0.1% EXPANSION AT 28 DAYS IN CONCRETE MIX AT ALL EXTERIOR CONCRETE AND INTERIOR CONCRETE EXPOSED TO MOISTURE.

## SPECIAL INSPECTION ITEMS:

- THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK SPECIFIED PER IBC SECTION 1705 AND IDENTIFY THE APPROVED AGENCIES TO THE BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE REQUIRED AS FOLLOWS:

SOILS (IBC TABLE 1705.6) (W/ GEOTECH REPORT)		
VERIFICATION AND INSPECTION	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

- QUALITY ASSURANCE PROGRAM:

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE STRUCTURAL ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.

## ABBREVIATIONS

A.B.C. --- AGGREGATE BASE COURSE	GLB (GLULAM) --- GLUED-LAMINATED BEAM
A/C --- AIR CONDITIONER	I.F.W. --- INSIDE FACE OF WALL
A.F.F. --- ABOVE FINISHED FLOOR	HORIZ --- HORIZONTAL
ALT. --- ALTERNATE	K(KIP) --- 1000 POUNDS
A.B. --- ANCHOR BOLT	L.L. --- LIVE LOAD
# --- AT (MEASUREMENT)	LBS (#) --- POUNDS
BM --- BEAM	LLH --- LONG LEG HORIZONTAL
B.F.F. --- BELOW FINISHED FLOOR	LLV --- LONG LEG VERTICAL
B.O.B. --- BOTTOM OF BEAM	MIN --- MINIMUM
B.O.D. --- BOTTOM OF DECK	MAX --- MAXIMUM
B.O.F. --- BOTTOM OF FOOTING	MFR(S) --- MANUFACTURER(S)
BRC --- BEARING	M.C.U. --- MASONRY CONTROL JOINT
C.I.P. --- CAST IN PLACE	MECH --- MECHANICAL
CL --- CENTERLINE	N/A --- NOT APPLICABLE
C.L.B. --- CENTERLINE OF BEAM	N.T.S. --- NOT TO SCALE
C.L.C. --- CENTERLINE OF COLUMN	O.C. --- ON CENTER
C.L.F. --- CENTERLINE OF FOOTING	O.F.W. --- OUTSIDE FACE OF WALL
C.L.W. --- CENTERLINE OF WALL	OPP --- OPPOSITE
CLR --- CLEAR	P.C. --- PRECAST CONCRETE
CONC --- CONCRETE	P.L.F. --- POUNDS PER LINEAR FOOT
C.C.J. --- CONCRETE CONTROL JOINT	PREFAB --- PREFABRICATED
C.S.J. --- CONCRETE SAWCUT JOINT	PSF --- POUNDS PER SQUARE FOOT
C.M.U. --- CONCRETE MASONRY UNIT	PSI --- POUNDS PER SQUARE INCH
CONN. --- CONNECTION	REINF --- REINFORCING
CONT. --- CONTINUOUS	SLH --- SHORT LEG HORIZONTAL
D.L. --- DEAD LOAD	SLV --- SHORT LEG VERTICAL
Ø OR DIA --- DIAMETER	SIM --- SIMILAR
DN --- DOWN	SQ --- SQUARE
DWG(S) --- DRAWING(S)	STD --- STANDARD
E.O.S. --- EDGE OF SLAB	T.L. --- TOTAL LOAD
EQ --- EQUAL	T.O.B. --- TOP OF BEAM
EQUIP --- EQUIPMENT	T.O.D. --- TOP OF DECK
EXP. BOLT --- EXPANSION BOLT	T.O.F. --- TOP OF FOOTING
EXP. JT (E.J.) --- EXPANSION JOINT	T.O.L. --- TOP OF LEDGER
(E) --- EXISTING	T.O.M. --- TOP OF MASONRY
E.W. --- EACH WAY	T.O.P. --- TOP OF PLATE
F.F. --- FINISHED FLOOR	T.O.S. --- TOP OF STEEL
F.O.M. --- FACE OF MEMBER	T.O.W. --- TOP OF WALL
F.O.S. --- FACE OF STEEL	TYP --- TYPICAL
F.O.W. --- FACE OF WALL	UNLESS NOTED OTHERWISE
GA. --- GAUGE	U.N.O. --- UNLESS NOTED OTHERWISE
GALV --- GALVANIZED	VERT --- VERTICAL
GSN --- GENERAL STRUCTURAL NOTES	W.W.F. --- WELDED WIRE FABRIC
	W/ --- WITH
	W/O --- WITHOUT

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PROJECT: ITD SUBLETT EQUIPMENT BUILDING

SUBLETT, IDAHO

SHEET TITLE:

GENERAL STRUCTURAL NOTES

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22' X 34' SHEET SIZE

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PROJECT DATE: 2/15/2023  
SHEET OF

SHEET INDEX		
SHEET	DESCRIPTION	DETAILS
S1.0	GENERAL STRUCTURAL NOTES	---
S1.1	TYPICAL DETAILS	T-SERIES
S2.0	FOUNDATION PLAN	---
S3.0	FOUNDATION DETAILS	100-SERIES

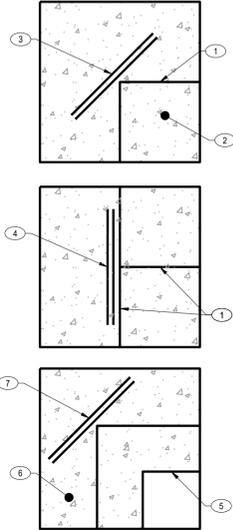
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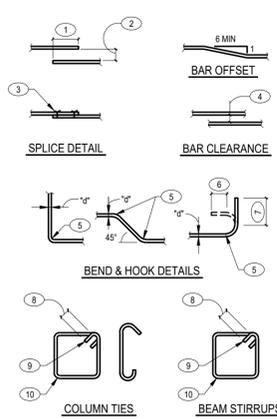
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Idaho Falls, ID 83401 fax: 208.227.8405  
contact@frost-structural.com

S1.0

- KEYNOTES:**
- CONTROL OR CONSTRUCTION JOINT
  - DEPRESSED CONCRETE SLAB
  - (2) #5/4-0" BARS AT EACH CORNER OF DEPRESSED SLAB WHERE CONTROL/CONSTRUCTION JOINTS DO NOT EXTEND FROM CORNER
  - (2) #5/4-0" BARS WHERE CONTROL/CONSTRUCTION JOINTS DO NOT CONTINUE BEYOND INTERSECTION
  - EXTERIOR WALL CORNER
  - INTERIOR SLAB ON GRADE, SEE PLAN
  - (2) #5/4-0" AT EXTERIOR WALL CORNER WHERE CONTROL/CONSTRUCTION JOINTS DO NOT INTERSECT CORNER



**T9** LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCEMENT (PLAN VIEW) NO SCALE

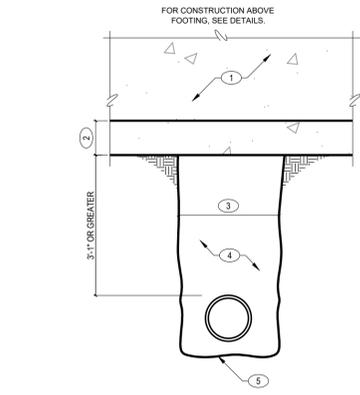


**T6** TYPICAL REINFORCING DETAILS NO SCALE

BAR SIZE	CLASS B TENSION SPLICE LENGTHS					
	f <sub>c</sub> = 3,000 PSI		f <sub>c</sub> = 4,000 PSI		f <sub>c</sub> = 5,000 PSI	
	HORIZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HORIZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS	HORIZONTAL BARS W/ >12" OF CONC. BELOW	VERTICAL AND BOTTOM HORIZONTAL BARS
#3	12"	12"	12"	12"	12"	12"
#4	19"	15"	17"	13"	15"	12"
#5	29"	23"	26"	20"	23"	18"
#6	32"	25"	28"	21"	25"	19"
#7	54"	41"	47"	36"	42"	32"
#8	70"	54"	61"	47"	54"	42"
#9	89"	68"	77"	59"	69"	53"
#10	112"	87"	97"	75"	87"	67"

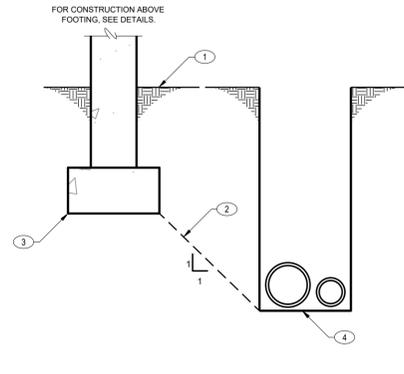
**T7** STEEL REINFORCING LAP SPLICES IN CONCRETE NO SCALE

- KEYNOTES:**
- LAP - SEE G.S.N.
  - MAXIMUM 1/2 LAP BUT NOT MORE THAN 6'
  - WIRE TIES
  - 14 (1" MINIMUM)
  - RADIUS = 3d FOR BARS NOT OVER #8; 4d FOR #9, #10, AND #11 BARS; 5d FOR #14 AND #18 BARS; 5d FOR ALL GRADE-40 BARS WITH 180 DEGREE HOOK
  - 4D (4" MINIMUM)
  - 12d (90 DEGREE HOOK)
  - 6d (4" MINIMUM)
  - 135 DEGREE BEND
  - BEND AROUND 1 1/2" PIN FOR #3 BARS; BEND AROUND 2" PIN FOR #4 BARS; BEND AROUND 2 1/2" PIN FOR #5 BARS.



**T3** PIPE PASSING BELOW FOOTING IN DEEP TRENCH NO SCALE

- KEYNOTES:**
- STEM WALL
  - CONCRETE FOOTING
  - 1-6" MAXIMUM - WHERE TRENCH EXCEEDS 1-8" NOTIFY STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF FOOTINGS
  - BACKFILL AND RECOMPACT TRENCH PER SOILS REPORT AND SPECIFICATIONS
  - BOTTOM OF TRENCH



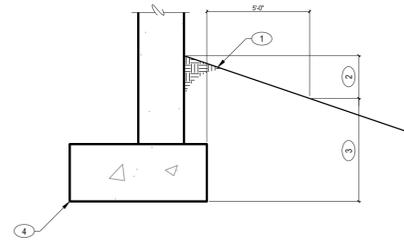
**T1** TRENCH PARALLEL TO CONTINUOUS STRAP FOOTING NO SCALE

- NOTE:**
- DO NOT UNDERCUT EXISTING FOOTINGS
  - NO PIPES OR OTHER UTILITIES SHALL PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS

- KEYNOTES:**
- FINISHED GRADE WHERE OCCURS
  - DO NOT EXCAVATE A TRENCH CLOSER THAN A 45 DEGREE ANGLE TO BELOW BOTTOM FOOTING OR FOUNDATION
  - BOTTOM OF CONCRETE FOOTING
  - BOTTOM OF TRENCH

- NOTE:**
- DO NOT UNDERCUT EXISTING FOOTINGS
  - NO PIPE OR OTHER UTILITIES SHALL PASS THRU WALL FOOTINGS OR UNDER COLUMN FOOTINGS

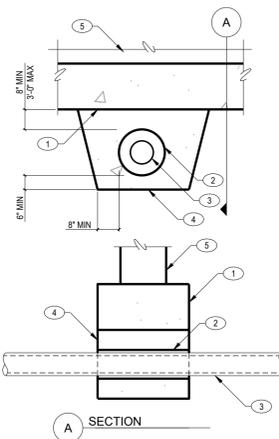
- KEYNOTES:**
- SLOPED FINISH GRADE
  - MINIMUM FOOTING DEPTH PER G.S.N. - 12" MINIMUM
  - DEEPEN FOOTING AS REQUIRED TO ACCOUNT FOR SLOPED GRADE
  - CONCRETE FOOTING



**T4** TYPICAL DETAIL FOR FOUNDATION EMBEDMENT NO SCALE

- NOTE:**
- FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS

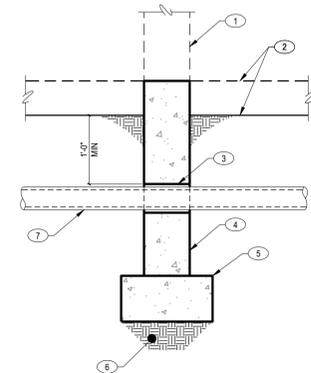
- KEYNOTES:**
- CONCRETE FOOTING
  - SLEEVE - PROVIDE 1/2" MINIMUM CLEARANCE AROUND PIPE OR CONDUIT
  - PIPE OR CONDUIT
  - CONCRETE FILL TO BE PLACED BEFORE FOOTING IS POURED - FORM SAME AS FOOTING AND POUR FULL WIDTH OF PIPE TRENCH
  - STEM WALL



**T2** PIPE PASSING UNDER WALL FOOTING IN SHALLOW TRENCH NO SCALE

- NOTE:**
- NO PIPE SHALL PASS THRU FOOTING OR UNDER COLUMN FOOTINGS. FOR TRENCHES GREATER THAN 3'-6" BELOW BOTTOM OF FOOTING, SEE PIPE PASSING BELOW WALL FOOTING DETAIL.

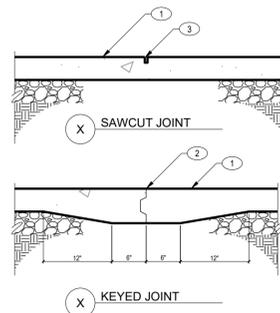
- KEYNOTES:**
- WALL AS OCCURS, SEE PLAN
  - SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
  - SLEEVE, 8"Ø MAX. PROVIDE 1/2" MINIMUM CLEARANCE AROUND PIPE/CONDUIT
  - CONCRETE WALL, SEE PLAN
  - CONCRETE FOOTING, SEE PLAN
  - COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
  - PIPE OR CONDUIT



**T8** TYPICAL PIPE THROUGH STEM WALL NO SCALE

- NOTE:**
- NO PIPE SHALL PASS THROUGH FOOTINGS OR UNDER COLUMN FOOTINGS. FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS
  - MULTIPLE PIPES/CONDUIT SLEEVES ALLOWED PROVIDED SLEEVES ARE SPACED IN MINIMUM OF 2x SLEEVE DIAMETER BETWEEN SLEEVES
  - SLEEVES SHALL NOT OCCUR WITHIN 12" OF POINT LOADS OR HOLD-DOWN ANCHORS

- KEYNOTES:**
- CONCRETE SLAB ON GRADE
  - CONT KEVED JOINT
  - SAWCUT 1/4" WIDE x 1/2" SLAB THICKNESS IN DEPTH - CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING. WORK MUST BE COMPLETE WITHIN 18 HOURS OF CONCRETE PLACEMENT.



**T5** CONTROL JOINTS IN CONCRETE SLAB ON GRADE NO SCALE

- NOTE:**
- KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT UNLESS SPECIFICALLY NOTED ON THE PLANS
  - TOOL-WET JOINT, "ZIP STRIP" ETC SHALL MATCH SAWCUT REQUIREMENTS



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**ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

SHEET TITLE:

**TYPICAL DETAILS**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

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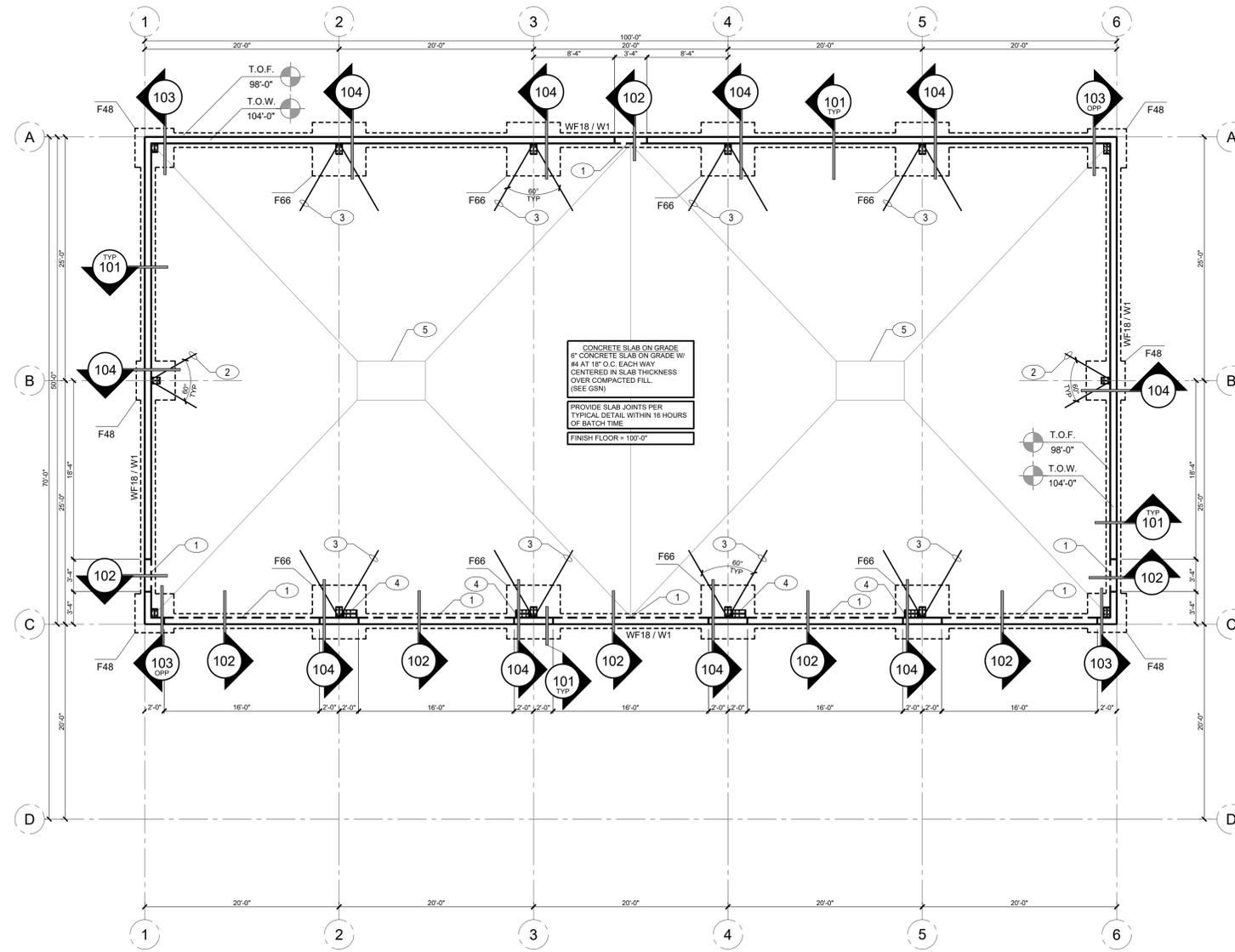
WALL (W) SCHEDULE				
MARK	THICKNESS AND TYPE	VERTICAL REINFORCING	HORIZONTAL REINFORCING	REMARKS
W1	8" CONCRETE	#4 AT 18" O.C.	#4 AT 12" O.C.	---

- (X) PLAN KEYNOTES
- VERIFY DOOR OPENING W/ ARCH DRAWINGS.
  - (1) #6x10'-0" LONG (5'-0" EACH LEG) HAIRPIN.
  - (1) #6x15'-0" LONG (7'-6" EACH LEG) HAIRPIN.
  - PROVIDE 24" DIAMETER CONCRETE PIER W/ (1) #5 HOOKED DOWELS AND (3) #3 TIES IN TOP 5" AND AT 8" O.C. REMAINDER BELOW PORTAL FRAME COLUMN, SIN TO DETAIL 104.
  - SLOPE FLOOR TO FLOOR DRAIN CATCH BASIN, COORDINATE W/ ARCH DRAWINGS.

FOOTING SCHEDULE					
NOTES: 1. FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS 2. FOR MINIMUM CLEARANCE (CLR) OF REINFORCING, SEE GENERAL STRUCTURAL NOTES (GSN).					
MARK	LENGTH	WIDTH	THICKNESS	FOOTING REINFORCING	REMARKS
F48	48"	48"	12"	(4) #4 EACH WAY TOP AND BOTTOM	---
F66	66"	66"	12"	(5) #5 EACH WAY TOP AND BOTTOM	---
WF18	CONT	18"	12"	(2) #4 CONT BOTTOM	STRIP FOOTING

HEADED ANCHOR ROD EMBED SCHEDULE	
DIAMETER	MINIMUM EMBEDMENT (FROM TOP OF PIER/WALL)
1/2"	12"
5/8"	14"
3/4"	16"
7/8"	18"
1"	20"
1 1/4"	25"

- FOUNDATION PLAN NOTES
- VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
  - ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
  - THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
  - W1, W2, ETC. - AS SHOWN ON PLAN INDICATES CONCRETE OR MASONRY WALLS. SEE WALL SCHEDULE FOR ADDITIONAL INFORMATION.
  - WF18, WF24, ETC. - AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
  - F36, F48, ETC. - AS SHOWN ON PLAN INDICATES A CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
  - COLUMN FOOTING SIZES ARE PRELIMINARY SIZES TO BE VERIFIED BY STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION. PRE-ENGINEERED BUILDING MANUFACTURER SHALL SUBMIT DESIGN CALCULATIONS PRIOR TO FABRICATING BUILDING COMPONENTS. CALCULATIONS SHALL SHOW ALL FOOTING LOAD PER METAL BUILDING MANUFACTURER'S ASSOCIATION "RECOMMENDED DESIGN PRACTICES MANUAL".



**FOUNDATION PLAN**

SCALE: 1/8" = 1'-0"



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PROJECT: **ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

SHEET TITLE: **FOUNDATION PLAN**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

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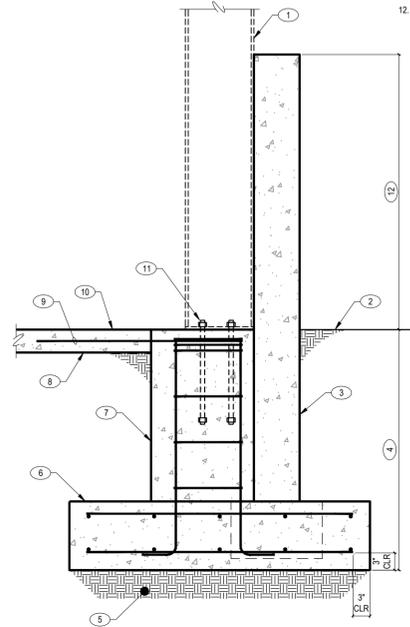
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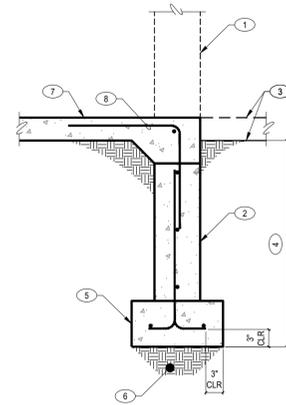
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 AIA NCARB ASLA



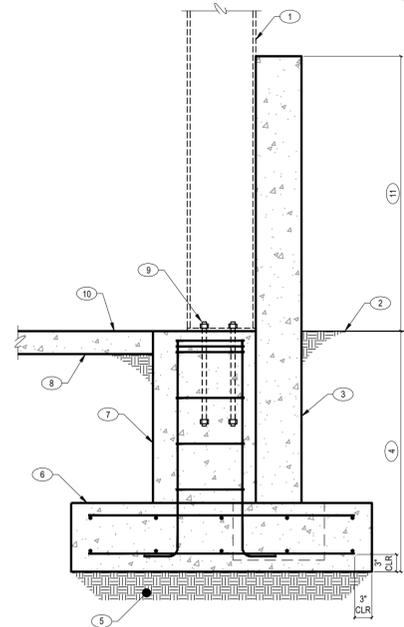
104 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING  
NO SCALE

- KEYNOTES:**
1. PRE-ENGINEERED COLUMN, SEE PLAN
  2. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
  3. CONCRETE STEM WALL BEYOND, CONT REINFORCEMENT TROUGH PIER (NOT SHOWN FOR CLARITY)
  4. MINIMUM FOOTING DEPTH, SEE GSN
  5. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
  6. CONCRETE FOOTING, SEE PLAN
  7. 18"Ø OR 16" SQUARE CONCRETE PIER W/ (8) #5 HOOKED DOWELS AND (3) #3 TIES IN TOP 5" AND AT 8" O.C. REMAINDER
  8. CONCRETE GRADE BEAM, SEE PLAN
  9. HAIRPIN AS OCCURS, SEE PLAN
  10. CONCRETE SLAB ON GRADE, SEE PLAN
  11. ANCHOR BOLTS W/ NUT AT BOTTOM
  12. 4"x4" COORDINATE W/ PLAN AND ARCH DRAWINGS



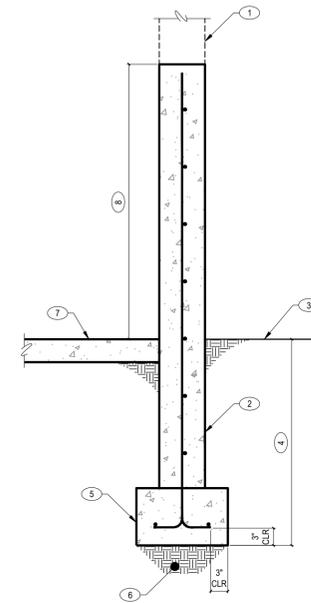
102 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING  
NO SCALE

- KEYNOTES:**
1. PRE-ENGINEERED BUILDING BEYOND
  2. CONCRETE STEM WALL, SEE PLAN
  3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
  4. MINIMUM FOOTING DEPTH, SEE GSN
  5. CONCRETE FOOTING, SEE PLAN
  6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
  7. CONCRETE SLAB ON GRADE, SEE PLAN
  8. #4 BENT DOWEL AT 18" O.C.



103 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING  
NO SCALE

- KEYNOTES:**
1. PRE-ENGINEERED COLUMN, SEE PLAN
  2. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
  3. CONCRETE STEM WALL BEYOND, CONT REINFORCEMENT TROUGH PIER (NOT SHOWN FOR CLARITY)
  4. MINIMUM FOOTING DEPTH, SEE GSN
  5. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
  6. CONCRETE FOOTING, SEE PLAN
  7. 18"Ø OR 16" SQUARE CONCRETE PIER W/ (8) #5 HOOKED DOWELS AND (3) #3 TIES IN TOP 5" AND AT 8" O.C. REMAINDER
  8. CONCRETE GRADE BEAM, SEE PLAN
  9. ANCHOR BOLTS W/ NUT AT BOTTOM
  10. CONCRETE SLAB ON GRADE, SEE PLAN
  11. 4"x4" COORDINATE W/ PLAN AND ARCH DRAWINGS



101 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING  
NO SCALE

- KEYNOTES:**
1. PRE-ENGINEERED BUILDING
  2. CONCRETE STEM WALL, SEE PLAN
  3. SIDEWALK, PAVEMENT, OR FINISH GRADE PER ARCH
  4. MINIMUM FOOTING DEPTH, SEE GSN
  5. CONCRETE FOOTING, SEE PLAN
  6. COMPACTED SUB-GRADE BELOW FOOTING, SEE PLAN
  7. CONCRETE SLAB ON GRADE, SEE PLAN
  8. 4"x4" COORDINATE W/ PLAN AND ARCH DRAWINGS



FOR BID ONLY - NOT FOR CONSTRUCTION

PROJECT: **ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

SHEET TITLE: **FOUNDATION DETAILS**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE
###	.
###	.
###	.

DRAWN BY:	DB
CHECKED BY:	CB
JOB NUMBER:	CLJOBNUM
PROJECT DATE:	2/15/2023
SHEET	OF

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JOB NO.: IF22-452 PROJECT MANAGER: DBP CAD OPERATOR: RMS

**FROST** Structural Engineering  
1020 E. Lincoln Road phone: 208.227.8404  
Idaho Falls, ID 83401 fax: 208.227.8405  
contact@frost-structural.com

**S3.0**



**MUSGROVE ENGINEERING, P.A.**  
 234 S. Whisperwood Way  
 Boise, ID 83709  
 208.384.0565  
 645 West 25th Street  
 Idaho Falls, ID 83402  
 208.523.2862  
 www.musgrovepa.com  
 Project No. 22-448

**Myers Anderson**

- Architecture
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122 South Main Street • Pocatello, Idaho 83204 • Tel. (208) 232-3741 • Fax (208) 232-3782  
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ASD  
 NCA/IB  
 AIA

**MECHANICAL ABBREVIATIONS**

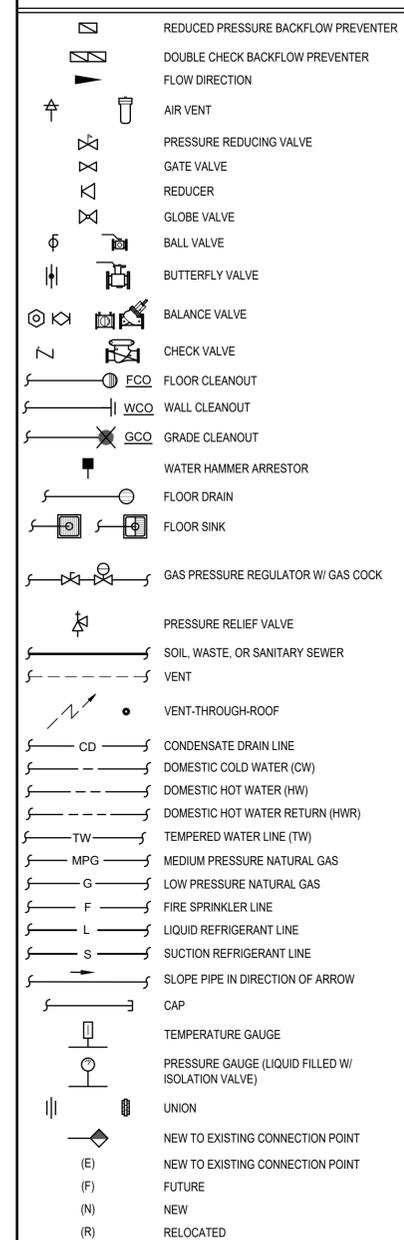
A/C or AC	AIR CONDITIONING	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR
AHU	AIR HANDLING UNIT		
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	LAT	LEAVING AIR TEMPERATURE
		LAV	LAVATORY
BTU	BRITISH THERMAL UNITS	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
BTUH	BTUS PER HOUR	LWT	LEAVING WATER TEMPERATURE
		MAX	MAXIMUM
CA	COMBUSTION AIR	MCA	MINIMUM CIRCUIT AMPS
CC	COOLING COIL	MOC	MAXIMUM OVERCURRENT PROTECTION
CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)	MIN	MINIMUM
CHWR	CHILLED WATER RETURN	NC	NOISE CRITERIA
CHWS	CHILLED WATER SUPPLY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CLG	CEILING	NTS	NOT TO SCALE
CW	COLD WATER		
DEG or °	DEGREE	OSA	OUTSIDE AIR
DIA or Ø	DIAMETER		
DB	DRY BULB	PD	PRESSURE DROP
		PH or Ø	PHASE
EA	EXHAUST AIR	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE		
EER	ENERGY EFFICIENCY RATIO	RA	RETURN AIR
ESP	EXTERNAL STATIC PRESSURE	RPM	REVOLUTIONS PER MINUTE
EWT	ENTERING WATER TEMPERATURE	RTU	ROOFTOP UNIT
		SA	SUPPLY AIR
FCO	FLOOR CLEANOUT	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FD	FIRE DAMPER	SFD	COMBINATION SMOKE/FIRE DAMPER
FLA	FULL LOAD AMPS	SP	STATIC PRESSURE
FLR	FLOOR	SYM	SYMBOL
PPM	FEET PER MINUTE		
FT	FEET		
		T & P	TEMPERATURE AND PRESSURE
GA	GAUGE	TEMP	TEMPERATURE
GCO	GRADE CLEANOUT	TYP	TYPICAL
GPM	WATER FLOW RATE (GALLONS PER MINUTE)		
		UMC	UNIFORM MECHANICAL CODE
HC	HEATING COIL	UPC	UNIFORM PLUMBING CODE
HP	HORSE POWER	URL	URNAL
HVAC	HEATING, VENTILATING, AIR CONDITIONING		
HW	HOT WATER	VTR	VENT THROUGH ROOF
HWR	HOT WATER RETURN	V	VOLTS
HWS	HOT WATER SUPPLY		
		W/	WITH
IBC	INTERNATIONAL BUILDING CODE	WB	WET-BULB
IEEC	INTERNATIONAL ENERGY CONSERVATION CODE	WC	WATER CLOSET
IFC	INTERNATIONAL FIRE CODE	WCO	WALL CLEANOUT
IFGC	INTERNATIONAL FUEL GAS CODE	WH	WATER HEATER
IMC	INTERNATIONAL MECHANICAL CODE		
IPC	INTERNATIONAL PLUMBING CODE		

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

**PLUMBING GENERAL NOTES**

1. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL & STATE CODES.
2. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
3. RUNOUT AND HOOKUP SIZES TO INDIVIDUAL PLUMBING FIXTURE CAN BE FOUND ON THE PLUMBING FIXTURE SCHEDULE.
4. PAINT ALL VTR'S, FLUES, EXHAUST CAPS, AND OTHER MECHANICAL ITEMS ON THE ROOF TO MATCH THE ROOF COLOR.
5. LOCATE ACCESS HATCHES SO AS TO PROVIDE OPTIMUM SERVICEABILITY TO EQUIPMENT AND/OR VALVING. SEE ARCHITECTURAL SPECIFICATION FOR TYPE AND COLOR. COORDINATE LOCATION WITH STRUCTURAL & LIGHTING.

**PLUMBING LEGEND**



NOTE: THIS IS A STANDARD LIST OF COMMONLY USED PLUMBING SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

**ENERGY CODE COMPLIANCE**

- A. COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
- B. AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE O&M MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM:
  1. EQUIPMENT CAPACITY (INPUT & OUTPUT).
  2. EQUIPMENT OPERATING AND MAINTENANCE INSTRUCTIONS.
  3. CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES.
  4. CONTROL SYSTEM SETPOINTS SHALL BE SHOWN ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR IN PROGRAMMING COMMENT ON DDC SYSTEMS.
  5. A COMPLETE WRITTEN NARRATIVE ON HOW EACH MECHANICAL SYSTEM IS INTENDED TO OPERATE.

PROJECT:  
**ITD SUBLETT EQUIPMENT BUILDING**

**SUBLETT, IDAHO**

SHEET TITLE:

**PLUMBING COVER PAGE**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.

DRAWING SCALE APPLIES TO 22' X 34' SHEET SIZE

REVISION	DATE
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DRAWN BY: JG

CHECKED BY: CD

JOB NUMBER: 22568

PROJECT DATE: DECEMBER 2022

SHEET **P000**



MUSGROVE  
ENGINEERING, P.A.  
234 S. Whisperwood Way  
Boise, ID 83709  
208.384.0565  
645 West 25th Street  
Idaho Falls, ID 83402  
208.523.2862  
www.musgrovepa.com  
Project No. 22-448

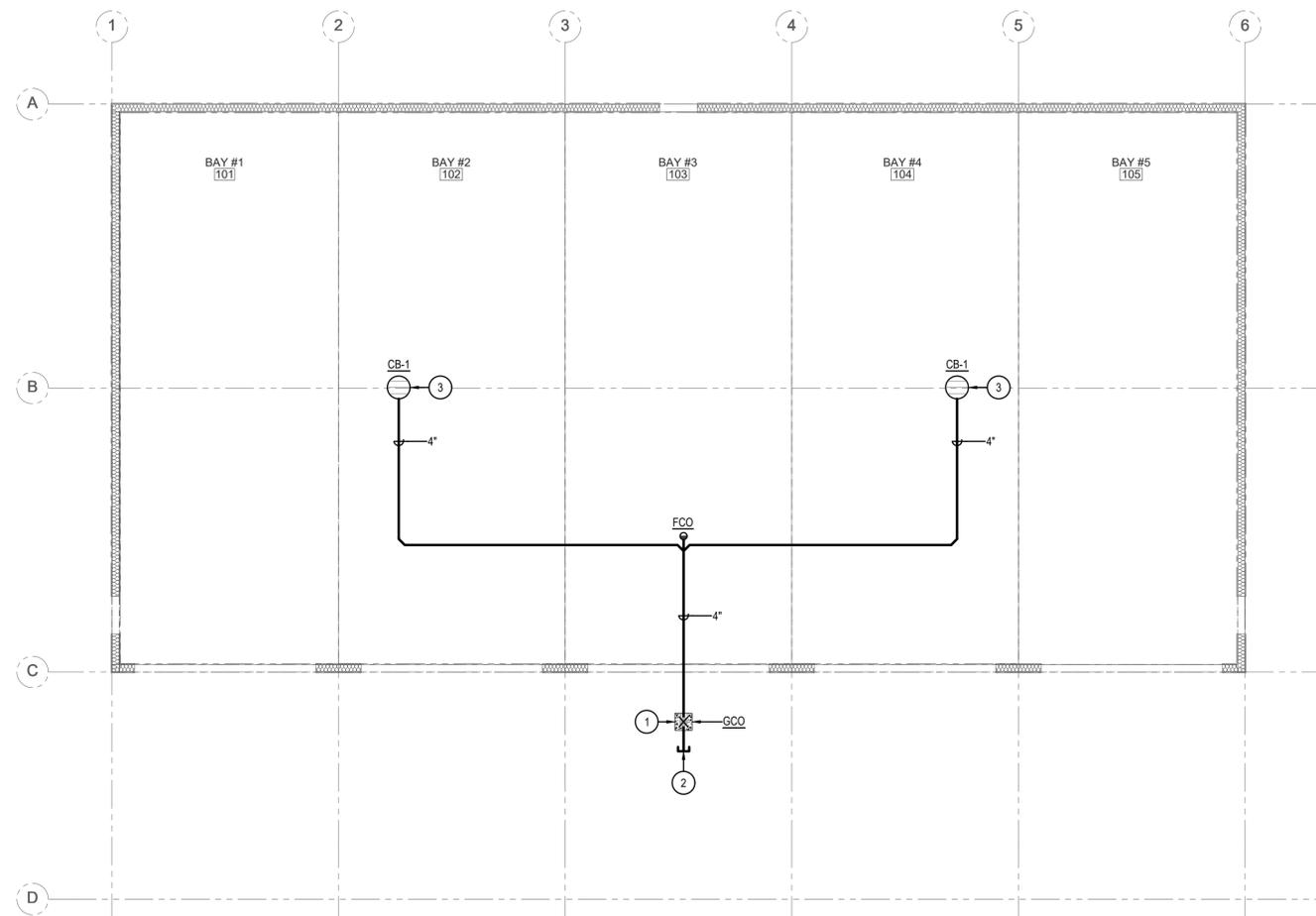
**GENERAL NOTES:**

A. ALL WORK ON THIS SHEET WILL BE PART OF BID ALTERNATE #3.

**KEYED NOTES:**

# SYMBOL USED FOR NOTE CALLOUT.

1. THE WASTE INVERT ELEVATION AT THIS LOCATION IS 25" BELOW FINISH FLOOR (BFF). THIS INVERT ELEVATION IS BASED ON A STARTING POINT OF 12" BFF WITH A LINE SLOPE OF 1/4" PER FOOT.
2. CAP LINE FOR FUTURE CONNECTION.
3. SEE CATCH BASIN DETAIL #1 ON SHEET P200. OWNER SHALL PUMP BASIN REGULARLY AS PART OF MAINTENANCE PROGRAM.



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PROJECT:  
**ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

SHEET TITLE:  
**PLUMBING FLOOR PLAN**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: JG

CHECKED BY: CD

JOB NUMBER: 22568

PROJECT DATE: DECEMBER 2022

SHEET

**P100**

**1**  
**P100** PLUMBING PLAN  
SCALE: 1/8" = 1'-0"



MUSGROVE  
ENGINEERING, P.A.  
234 S. Whisperwood Way  
Boise, ID 83709  
208.384.0585  
645 West 25th Street  
Idaho Falls, ID 83402  
208.523.2862  
www.musgrovepa.com  
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**Myers Anderson**  
 ■ Architecture  
 ■ Interior Design  
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 122 South Main Street • Pocatello, Idaho 83201 • Tel. (208) 232-3741 • Fax (208) 232-3782  
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PROJECT:  
**ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

**DETAILS AND SCHEDULES**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

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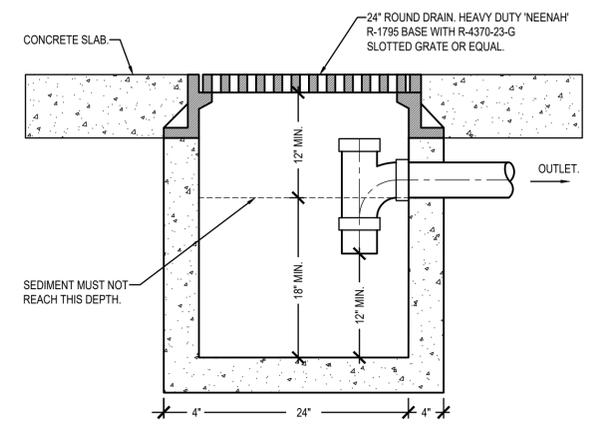
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PROJECT DATE: DECEMBER 2022

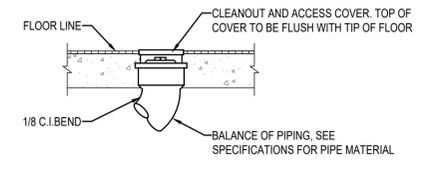
SHEET **P200**

PLUMBING FIXTURE SCHEDULE							
SYMBOL	FIXTURE DESCRIPTION	CONNECTION SIZE					MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS
		WASTE	VENT	TRAP	CW	HW	
CB-1	CATCH BASIN FLOOR DRAIN	4	--	--	--	--	CATCH BASIN DRAIN - SEE DETAIL FOR REQUIREMENTS.
FCO	FLOOR CLEANOUT	SEE PLANS	--	--	--	--	JAY R. SMITH 4020 SERIES WITH ADJUSTABLE, ROUND NICKEL BRONZE TOP AND ABS PLUG.
GCO	GRADE CLEANOUT (PAVED AREAS) (VEHICULAR TRAFFIC)	SEE PLANS	--	--	--	--	JAY R. SMITH 4250 SERIES, ROUND FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER. FURNISH WITH ABS PLUG. COVER TO BE INSCRIBED "SAN".

NOTES:  
 1. SEE SPECIFICATIONS FOR ALTERNATE APPROVED MANUFACTURERS.

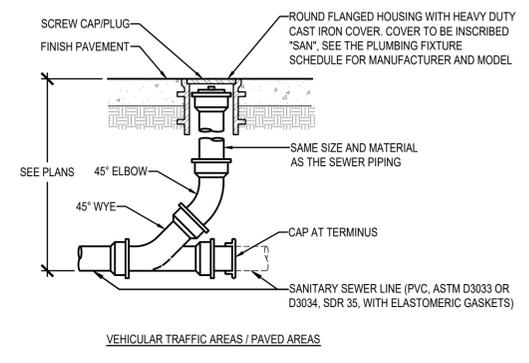


**1 CATCH BASIN (H25 RATED)**  
 NOT TO SCALE



**2 FLOOR CLEANOUT (FCO) DETAIL**  
 NOT TO SCALE

NOTE:  
 1. CLEANOUTS SHALL BE PROVIDED AT EACH HORIZONTAL DRAINAGE PIPE AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING WHICH IS MORE THAN 100 FEET, AND SHALL BE PROVIDED FOR EACH 100 FEET DEVELOPED LENGTH, OR FRACTION THEREOF OF SUCH PIPING. AN ADDITIONAL CLEANOUT SHALL BE PROVIDED FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE DEGREES, PER APPLICABLE PLUMBING CODE. THIS SHALL BE PROVIDED REGARDLESS OF WHAT IS SHOWN ON THE DRAWINGS.



**3 GRADE CLEANOUT (GCO) DETAIL**  
 NOT TO SCALE

VEHICULAR TRAFFIC AREAS / PAVED AREAS

## ELECTRICAL LEGEND - LIGHTING

	REFERENCE FIXTURE SCHEDULE FOR MOUNTING TYPE, MOUNTING HEIGHT, AND FIXTURE TYPE.
	HIGH BAY LIGHT FIXTURE.
	PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.
	OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS REQUIRED.
	EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.
	WALL MOUNTED SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
	INDICATES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.
	EXTERIOR WALL PACK
	EMERGENCY EXTERIOR WALL PACK. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR

## DEVICES

	SWITCH, TYPE AS INDICATED. +46" AFF
	DOUBLE POLE
	3-WAY
	4-WAY
	KEYED
	PILOT LIGHT
	DIMMER
	HORSEPOWER RATED
	THERMAL OVERLOAD
	LOW VOLTAGE
	OCCUPANCY SENSOR
	LOW VOLTAGE, MOMENTARY OVERRIDE
	VACANCY SENSOR
	SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
	DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
	DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
	OCCUPANCY SENSOR WITH MANUAL DIMMING, SET FOR 50% AUTOMATIC ON, AUTOMATIC OFF, WITH MANUAL DIMMING.
	SINGLE CONVENIENCE OUTLET, +18" AFF UNO
	FLOOR MOUNT SINGLE CONVENIENCE OUTLET
	DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	FLOOR MOUNT DUPLEX CONVENIENCE OUTLET
	EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET
	USB DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	USB FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO
	FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO
	FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET
	CONNECTION POINT TO EQUIPMENT SPECIFIED, ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO
	FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR REQUIREMENTS
	FLOOR MOUNTED JUNCTION BOX
	JUNCTION BOX
	WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
	WALL MOUNTED PUSH BUTTON, HANDICAPPED MOUNT AT SWITCH HEIGHT UNO
	WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
	MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED
	COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED, NEMA 1 UNO
	FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO
	NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO
	THERMOSTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH DIVISION 15.
	HUMIDISTAT, +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS.
	POWER POLE - DUAL CHANNEL
	RECESSED ENTERTAINMENT BOX
	TRANSFORMER
	PANELBOARD. SEE SCHEDULE FOR TYPE.
	EQUIPMENT CABINET, SURFACE MOUNTED
	EQUIPMENT CABINET FLUSH MOUNTED
	SURFACE MULTI-OUTLET RACEWAY
	MECHANICAL EQUIPMENT CALL OUT
	KITCHEN EQUIPMENT CALLOUT

## ONE LINE

	DELTA WYE TRANSFORMER UNO
	PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
	CIRCUIT BREAKER, SIZE AND POLES INDICATED
	FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
	INTERRUPTER SWITCH, SIZE AND POLES INDICATED
	FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
	DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED
	INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO
	INDIVIDUAL BREAKER, SIZE AND POLES INDICATED. NEMA 1 UNO
	GROUND FAULT PROTECTION
	TRANSIENT VOLTAGE SURGE SUPPRESSION
	ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS): L'-LONG TIME S'-SHORT TIME T'-INSTANTANEOUS G'-GROUND FAULT R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR
	GROUND
	SHUNT TRIP COIL
	MOTOR
	DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO
	OVERHEAD SERVICE DROP
	GENERATOR SET, MAIN BREAKER SIZE INDICATED
	AUTOMATIC TRANSFER SWITCH (ATS)
	METER AND BASE
	NEUTRAL
	DRY TYPE TRANSFORMER
	PAD MOUNT TRANSFORMER

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL SYMBOLS. SOME OF THE SYMBOLS SHOWN MAY NOT HAVE BEEN USED IN THIS DRAWING PACKAGE.

## ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE BACKSPLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOTTOM OF DECK
BS	BOTTOM OF STRUCTURE
C	CEILING MOUNTED CONDUIT
CB	CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO	CONDUIT ONLY. PROVIDE PULL-LINE CONTROL
CT	CURRENT TRANSFORMER
CTL	CIRCUIT BREAKER
DC	DIRECT CURRENT
(D)	DEMOLITION
DEMO	DEMOLITION
DET	DETAIL
DTT	DOUBLE TWIN TUBE
E	EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	EMERGENCY LIGHT
F	FUSE
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
G/ND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HH	HAND HOLE
HD	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IG	ISOLATED GROUND
IPCO	IDaho POWER COMPANY
J-BOX	JUNCTION BOX
KA	KILOAMP
KVA	KILO VOLT-AMP
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
MB	MAIN BREAKER
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MMC	MODULAR METERING CENTER
MH	METAL HALIDE
MSB	MAIN SWITCH BOARD
MTG	MOUNTING
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OS	OCCUPANCY SENSOR
P	POLES
PC	PHOTO-CONTROL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE:	REFERENCE
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TK	TOE KICK
TSP	TWISTED SHIELDED PAIR
TRT	TRIPLE TUBE
TTB	TELEPHONE TERMINAL BOARD (TYP.)
UC	UNDERCABINET
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHER PROOF, NEMA 3R
PROVIDE/	PROVIDE AND INSTALL / PROVIDED AND
PROVIDE BY	INSTALLED BY / PROVIDED AND INSTALL
INSTALLED/	INSTALL

NOTE: THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

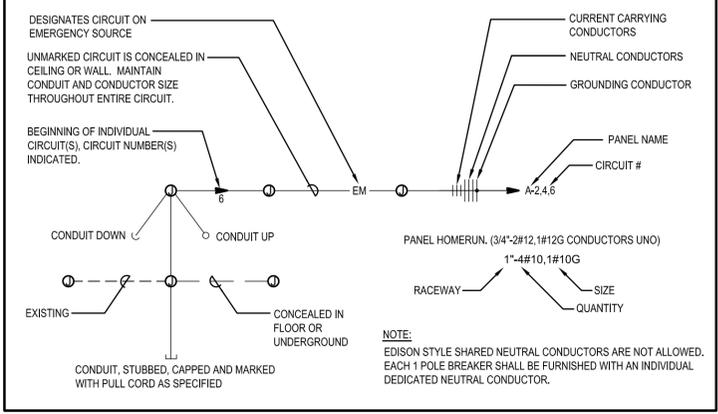
## ELECTRICAL GENERAL NOTES

- THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.
- ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION, WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL, SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.
- PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.
- TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.
- MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

## COMMUNICATIONS

	JUNCTION BOX FOR FUTURE TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE SINGLE-GANG MUD RING WITH BLANK COVER PLATE. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
	TELEPHONE/DATA OUTLET. MOUNT AT 18" A.F.F. UNO. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
	FLOOR MOUNTED TELEPHONE/DATA OUTLET. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING. INSTALL QUANTITY OF DATA (#D) AND TELEPHONE (#T) CABLES INDICATED TO THE NEAREST DATA RACK. PROVIDE (2) DATA CABLES IF A CABLE QUANTITY IS NOT INDICATED.
	JUNCTION BOX WITH SINGLE-GANG MUD RING. PROVIDE 1" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE BLANK COVER PLATE.
	INTERCOM SYSTEM CALL BUTTON. +46" UNO.
	CEILING MOUNTED SPEAKER WITH BACKBOX
	WALL MOUNTED SPEAKER, WITH BACKBOX +80" UNO
	VOLUME CONTROL, +46" UNO
	TELEVISION OUTLET, +18" AFF UNO. PROVIDE 1-1/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE
	CEILING MOUNTED TELEVISION OUTLET
	TELEPHONE TERMINAL BOARD
	CABLE TRAY, 4" DEEP, WIRE BASKET STYLE, 'XX' INDICATES WIDTH PROVIDE ALL FITTINGS AND SUPPORT HARDWARE REQUIRED

## CIRCUITING SYMBOLS



**MUSGROVE ENGINEERING, P.A.**  
 234 S. Whipperswood Way  
 Boise, ID 83709  
 208.384.0585  
 645 West 25th Street  
 Idaho Falls, ID 83402  
 208.523.2862  
 www.musgrovepa.com  
 PROJECT NO. 22-448

**Myers Anderson**  
 ■ Architecture  
 ■ Interior Design  
 ■ Historic Preservation

122 South Main Street • Pocatello, Idaho 83204 • Tel. (208) 232-3741 • Fax. (208) 232-3762  
 927 Main Street, Suite 300 • Evanston, Wyoming 82930 • Tel. (307) 789-0924

PROFESSIONAL ENGINEER  
 REGISTERED  
 13299  
 8/2/20/2023  
 STATE OF IDAHO  
 MATTHEW N. BRADLEY

PROJECT: ITD SUBLETT EQUIPMENT BUILDING  
 SHEET TITLE: ELECTRICAL COVER SHEET

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION: \_\_\_\_\_ DATE: \_\_\_\_\_

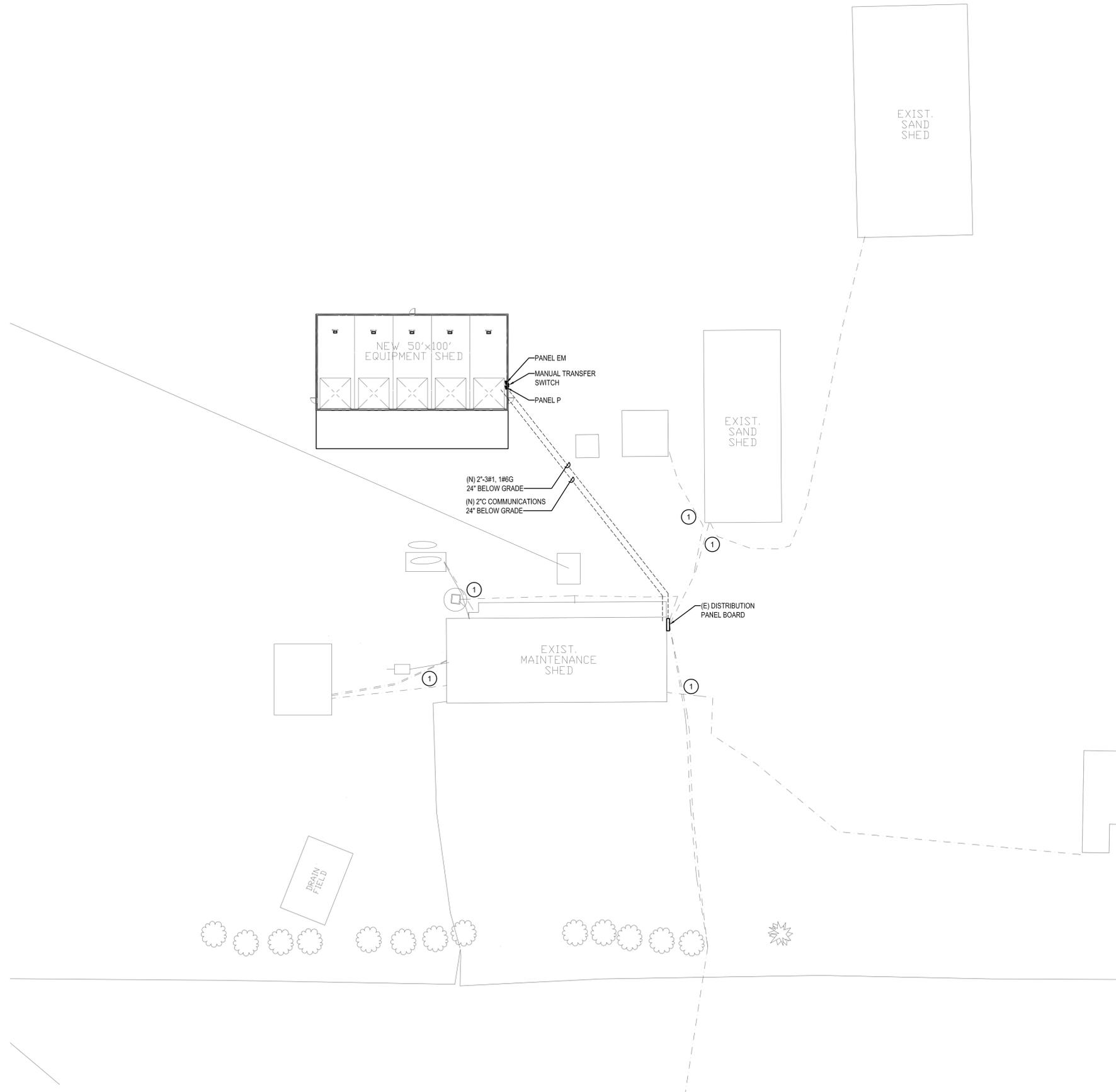
DRAWN BY: DBH  
 CHECKED BY: MNB  
 JOB NUMBER: 22568  
 PROJECT DATE: DECEMBER 2022

SHEET **E000**



**KEYED NOTES:**

- # SYMBOL USED FOR NOTE CALLOUT.  
 1. EXISTING ELECTRICAL SERVICE TO REMAIN.



1  
 E200 POWER PLAN  
 SCALE: 1/8" = 1'-0"

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 ■ Architecture  
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 122 South Main Street • Pocatello, Idaho 83204 • Tel. (208) 232-3741 • Fax. (208) 232-3782  
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PROJECT: **ITD SUBLETT EQUIPMENT BUILDING**  
**SUBLETT, IDAHO**

SHEET TITLE:  
**ELECTRICAL SITE PLAN**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION	DATE

DRAWN BY: DBH

CHECKED BY: MNB

JOB NUMBER: 22568

PROJECT DATE: DECEMBER 2022

SHEET **SE100**



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- Historic Preservation

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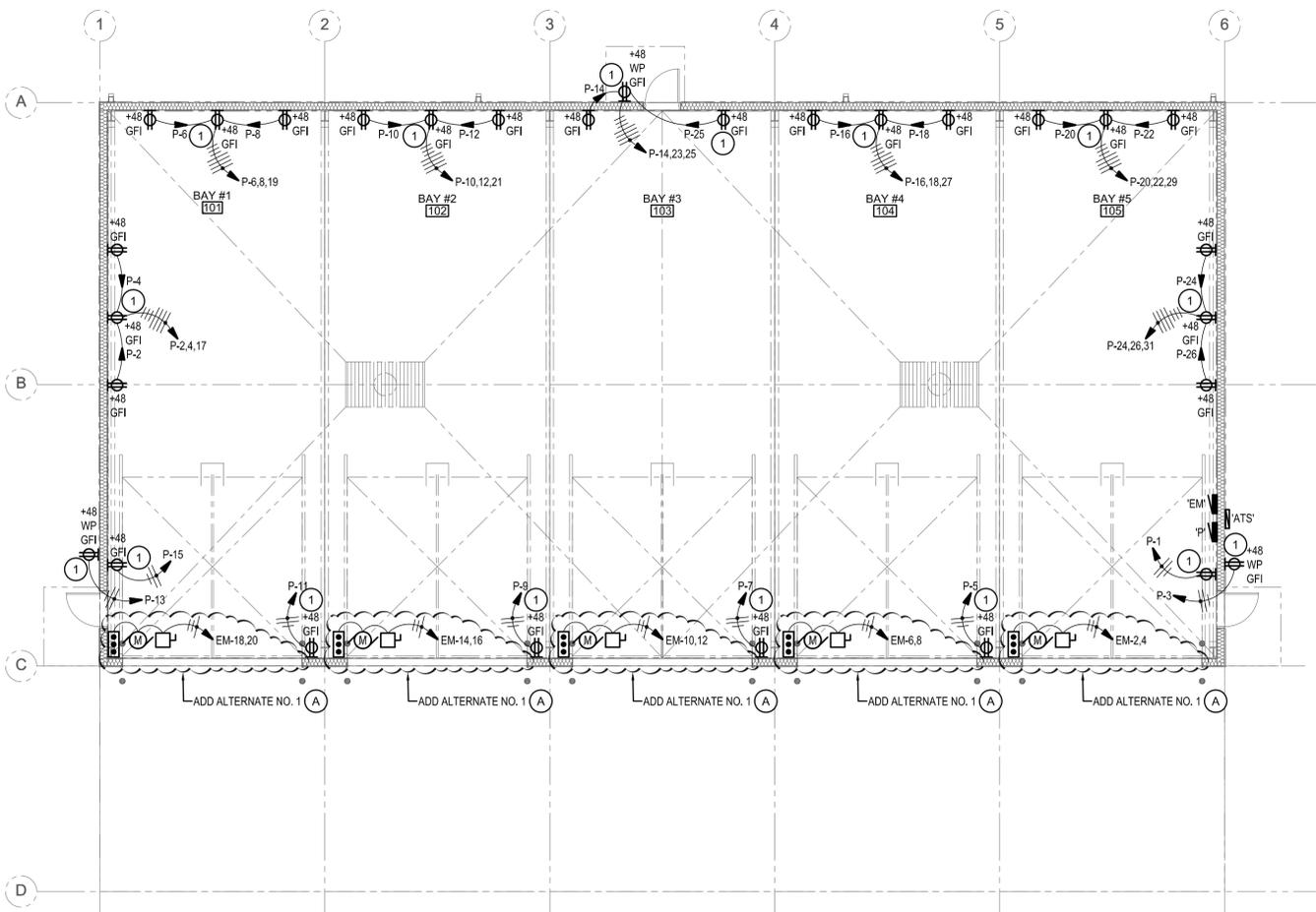


**KEYED NOTES:**

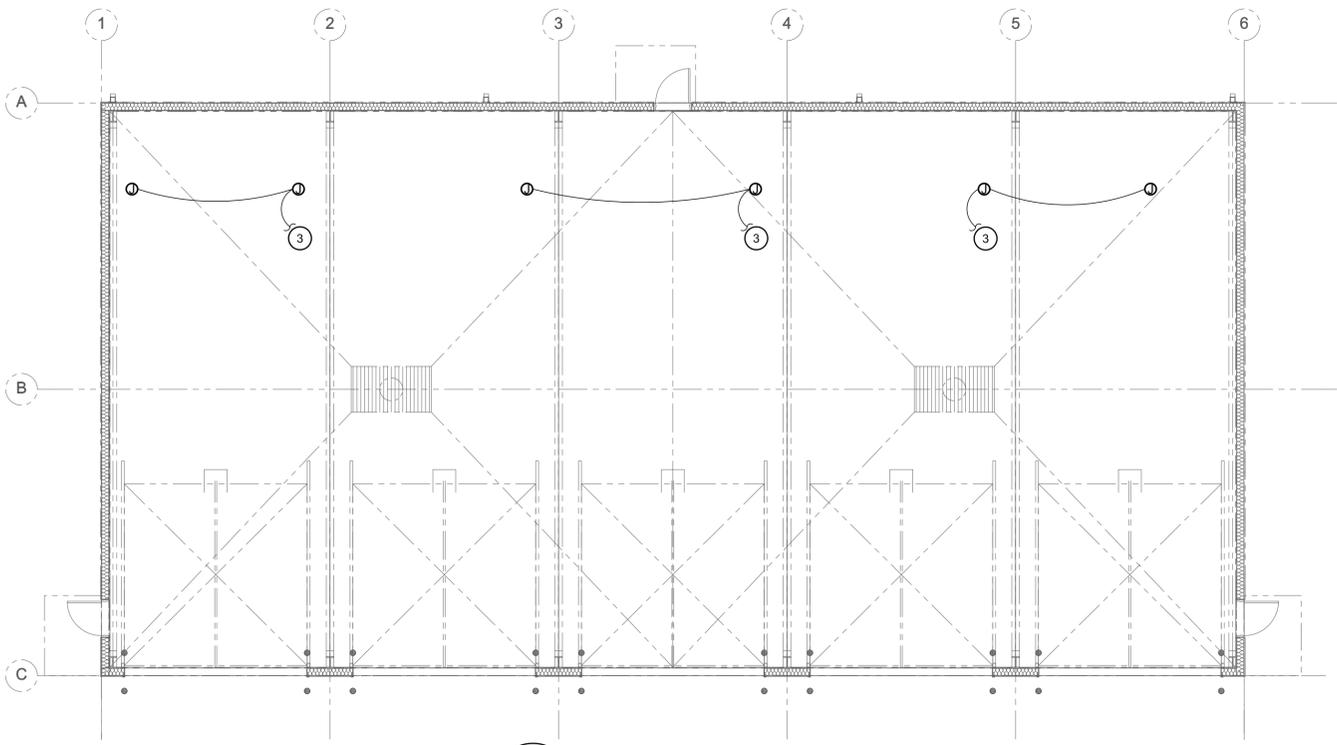
- # SYMBOL USED FOR NOTE CALLOUT.
- 1. TANK HEATER RECEPTACLE SHALL BE LABELED "TANK HEATERS" ON TOP OF COVER PLATE.
- 2. ELECTRICAL CONTRACTOR SHALL CONNECT ALL LOW VOLTAGE AND LINE VOLTAGE CONNECTIONS TO MAKE DOOR OPERATORS OPERATIONAL.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR FUTURE UNIT HEATERS BACK TO PANEL EM.

**ADD ALTERNATE NO. 1**

- # SYMBOL USED FOR NOTE CALLOUT.
- A. ALL WORK ASSOCIATED WITH INSTALLATION OF THE OVERHEAD DOORS INCLUDING TRACKS, HARDWARE, PUSH-BUTTON CONTROLS AND OVERHEAD DOOR OPERATOR. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.



**1**  
**E200** POWER PLAN  
 SCALE: 1/8" = 1'-0"



**2**  
**E200** MECHANICAL POWER PLAN  
 SCALE: 1/8" = 1'-0"

PROJECT: ITD SUBLETT EQUIPMENT BUILDING  
 SUBLETT, IDAHO

SHEET TITLE:  
**POWER AND MECHANICAL POWER PLANS**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22' X 34' SHEET SIZE

REVISION	DATE

DRAWN BY: DBH

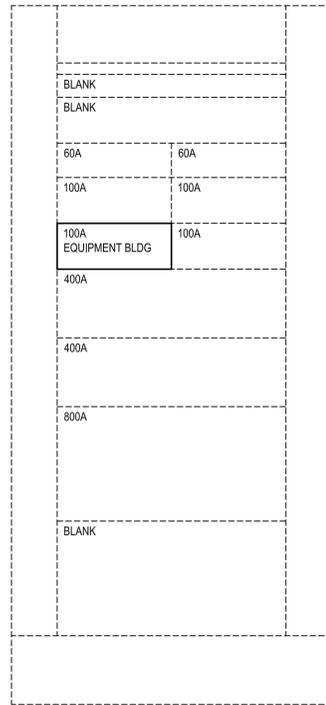
CHECKED BY: MNB

JOB NUMBER: 22568

PROJECT DATE: DECEMBER 2022

SHEET **E200**





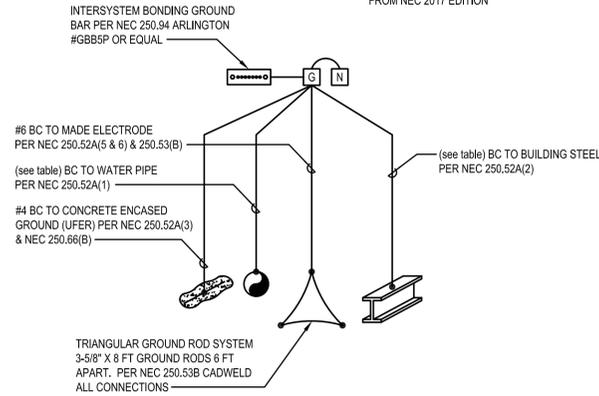
EXISTING DISTRIBUTION PANELBOARD ELEVATION  
NTS

TABLE 250.66 FROM NEC

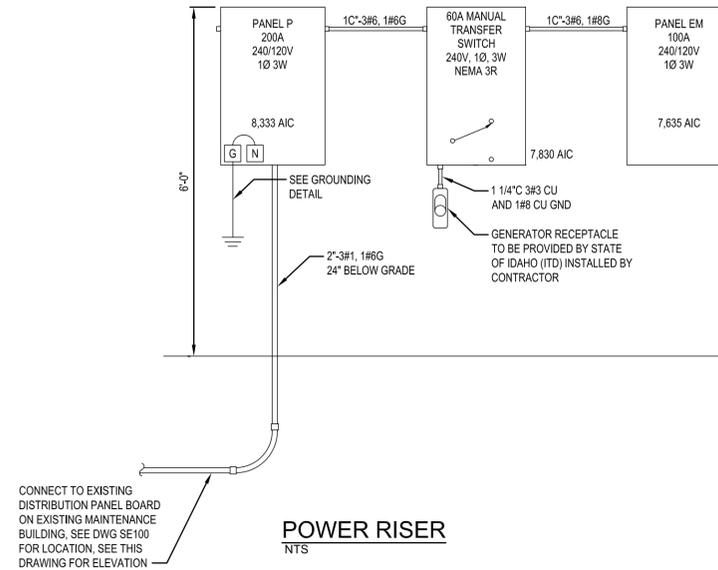
SIZE OF LARGEST UNGROUNDED SERVICE-ENTRANCE CONDUCTOR (AWG/KCMIL)	SIZE OF GROUNDING ELECTRODE CONDUCTOR (AWG/KCMIL)	MAX SERVICE SIZE
2 OR SMALLER	8	100A
1 OR 1/0	6	150A
2/0 OR 3/0	4	200A
OVER 3/0 THROUGH 350	2	300A
OVER 350 THROUGH 600	1/0	400A
OVER 600 THROUGH 1100	2/0	500A
OVER 1100	3/0	1000A

FOR OVER 1100 KCMIL ALSO REFER TO NEC PARAGRAPH 250.24(C)(1) GROUNDED CONDUCTOR SHALL NOT BE SMALLER THAN 12-1/2% OF THE AREA OF THE LARGEST SERVICE CONDUCTOR

NOTE:  
ALL CODE REFERENCES FROM NEC 2017 EDITION



GROUNDING SHALL BE COMPLETED TO ALL TYPES SHOWN  
**GROUNDING DETAIL**  
NTS



CONNECT TO EXISTING DISTRIBUTION PANEL BOARD ON EXISTING MAINTENANCE BUILDING, SEE DWG SE100 FOR LOCATION, SEE THIS DRAWING FOR ELEVATION  
**POWER RISER**  
NTS

PANEL: P		PROJECT: ITD SUBLETT EQUIPMENT BUILDING													
VOLTAGE: 240 / 120 V		1 PH		3 WIRE		AMPERE RATING: 225A		WITH 225A		M.L.O.		MOUNTING: SURFACE			
BASIS OF DESIGN PANEL TYPE: PANEL BOARD		NEMA ENCLOSURE TYPE: 1		PANEL AIC RATING: 10000		REMARKS:									
CKT NOTES:		REMARKS:													
1. GFCI FOR PERSONNEL PROTECTION (5mA)		1. GFCI FOR PERSONNEL PROTECTION (5mA)													
2. GFEP FOR EQUIPMENT PROTECTION (30mA)		2. GFEP FOR EQUIPMENT PROTECTION (30mA)													
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	A	LOAD (VA) N/A	C	AMPS/POLES	LOAD VA	LOAD AMPS	CKT NOTE	DESCRIPTION	CKT	
1	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680			20 1	1.5	180		REC - BAY 1 W. WALL	2	
3	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680	1680		20 1	1.5	180		REC - BAY 1 W. WALL	4	
5	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680			20 1	1.5	180		REC - BAY 1 N. WALL	6	
7	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680	1680		20 1	1.5	180		REC - BAY 1 N. WALL	8	
9	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680			20 1	1.5	180		REC - BAY 1 N. WALL	10	
11	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680	1680		20 1	1.5	180		REC - BAY 1 N. WALL	12	
13	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680			20 1	1.5	180		REC - BAY 1 N. WALL	14	
15	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680	1680		20 1	1.5	180		REC - BAY 1 N. WALL	16	
17	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680			20 1	1.5	180		REC - BAY 1 N. WALL	18	
19	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680	1680		20 1	1.5	180		REC - BAY 1 N. WALL	20	
21	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680			20 1	1.5	180		REC - BAY 1 N. WALL	22	
23	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680	1680		20 1	1.5	180		REC - BAY 1 E. WALL	24	
25	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680			20 1	1.5	180		REC - BAY 1 E. WALL	26	
27	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680			20 1	0.0			SPARE	28	
29	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1500			20 1	0.0			SPARE	30	
31	REC - VEHICLE TANK HEATER		1500	12.5	20 1	1680	1500		20 1	0.0			SPARE	32	
33	SPARE		0.0	0.0	20 2	0			20 1	0.0			SPARE	34	
35	SPARE		0.0	0.0	20 2	0			20 1	0.0			SPARE	36	
37	***		0.0	0.0	** *	0			20 1	0.0			SPARE	38	
39	SPARE		0.0	0.0	20 2	0			60 2	0.0			PANEL EM THRUATS	40	
41	***		0.0	0.0	** *	0			** *	0.0			***	42	
						13260.0 VA							13080.0 VA		
						110.5							109.0 AMPS	26340 TOTAL VA	

PANEL: EM		PROJECT: ITD SUBLETT EQUIPMENT BUILDING													
VOLTAGE: 240 / 120 V		1 PH		3 WIRE		AMPERE RATING: 125A		WITH 100A		M.L.O.		MOUNTING: SURFACE			
BASIS OF DESIGN PANEL TYPE: PANEL BOARD		NEMA ENCLOSURE TYPE: 1		PANEL AIC RATING: 10000		REMARKS:									
CKT NOTES:		REMARKS:													
1. GFCI FOR PERSONNEL PROTECTION (5mA)		1. GFCI FOR PERSONNEL PROTECTION (5mA)													
2. GFEP FOR EQUIPMENT PROTECTION (30mA)		2. GFEP FOR EQUIPMENT PROTECTION (30mA)													
3. ADD ALTERNATE NO. 1		3. ADD ALTERNATE NO. 1													
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	A	LOAD (VA) N/A	C	AMPS/POLES	LOAD VA	LOAD AMPS	CKT NOTE	DESCRIPTION	CKT	
1	LTG - FRONT ROW		810	6.8	20 1	1770			20 2	8.0	960	3	OVERHEAD DOOR 1	2	
3	LTG - BECK ROW		810	6.8	20 1	1770	1770		** *	8.0	960	3	***	4	
5	LTG EXTERIOR		432	3.6	20 1	1392			20 2	8.0	960	3	OVERHEAD DOOR 2	6	
7	UNIT HEATERS UH-1 & UH-2 (FUTURE)			0.0	20 1	960			960	** *	8.0	960	3	***	8
9	UNIT HEATERS UH-3 & UH-4 (FUTURE)			0.0	20 1	960			20 2	8.0	960	3	OVERHEAD DOOR 3	10	
11	UNIT HEATERS UH-5 & UH-6 (FUTURE)			0.0	20 1	960			960	** *	8.0	960	3	***	12
13	SPARE			0.0	20 1	960			20 2	8.0	960	3	OVERHEAD DOOR 4	14	
15	SPARE			0.0	20 1	960			960	** *	8.0	960	3	***	16
17	SPARE			0.0	20 1	960			20 2	8.0	960	3	OVERHEAD DOOR 5	18	
19	SPARE			0.0	20 1	960			960	** *	8.0	960	3	***	20
						6042.0 VA							5610.0 VA		
						50.4							46.8 AMPS	11652 TOTAL VA	

PROJECT: ITD SUBLETT EQUIPMENT BUILDING

SHEET TITLE:

**ELECTRICAL DETAILS**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

REVISION DATE

DRAWN BY: DBH

CHECKED BY: MNB

JOB NUMBER: 22568

PROJECT DATE: DECEMBER 2022

SHEET **E300**

**MUSGROVE ENGINEERING, P.A.**  
234 S. Whisperwood Way  
Boise, ID 83709  
208.384.0385  
645 West 25th Street  
Idaho Falls, ID 83402  
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PROJECT NO. 22-448

**Myers Anderson**  
Professional Engineering  
13299  
02/20/2023  
STATE OF IDAHO  
MATTHEW N. BRADLEY  
NCAARB ASD  
AIA

SUBLETT, IDAHO

122 South Main Street • Pocatello, Idaho 83204 • Tel. (208) 232-3741 • Fax. (208) 232-3762  
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